COLOR VIDEO CAMERA CAMERA ADAPTOR 1.5INCH ELECTRONIC VIEWFINDER ZOOM LENS





VOL. 2
BLOCK DIAGRAMS
SEMICONDUCTORS
SCHEMATIC DIAGRAMS
BOARD ILLUSTRATIONS
SPARE PARTS





### SAFETY RELATED COMPONENT WARNING

Components identified by shading and  $\triangle$  marked on the schematic diagrams and parts list are critical to safe operation. Replace these components with SONY parts whose part numbers appear as shown in this manual or in supplements published by SONY.

Warning—This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with the instructions manual, may cause interference to radio communications. It has been tested and found to comply with the limits for a Class A computing device pursuant to Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference in which case the user at his own expense will be required to take whatever measures may be required to correct the interference.

The shielded interface cable recommended in this manual must be used with this equipment in order to comply with the limits for a computing device pursuant to Subpart J of Part 15 of FCC rules.

### For the customers in Canada

This apparatus complies with the Class A limits for radio noise emissions set out in Radio Interference Regulations.

# Pour les utilisateurs au Canada

Cet appareil est conforme aux normes Classe A pour bruits radioélectriques, spécifiés dans le Règlement sur le brouillage radioélectrique.



## **SPECIFICATIONS**

Focal length

7.5 to 90 mm

Zoom

Manual and motorized, selectable

Zooming ratio: 12 ×

Maximum aperture ratio

1.4

Iris control

Manual and auto, selectable

1.4 to 16 and C (closed)

Range of object field (at the distance of 1.1 m)

W (wide angle):  $660 \times 880$ 

 $(24^{1}/_{2} \times 34^{3}/_{4} \text{ inches})$ 

T (telephoto):  $55 \times 73$  mm T (telephoto):  $(2^{1/4} \times 3)$  inches)

Minimum object distance

1.1 m

Filter thread

72 mm dia., 0.75 pitch Bayonet mount, ½ inch

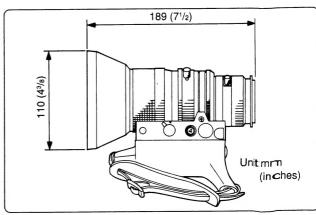
Mount Weight

About 1.2 kg (2 lb 4 oz) with lens hood

Supplied accesory

Operating instructions (1)

Dimensions

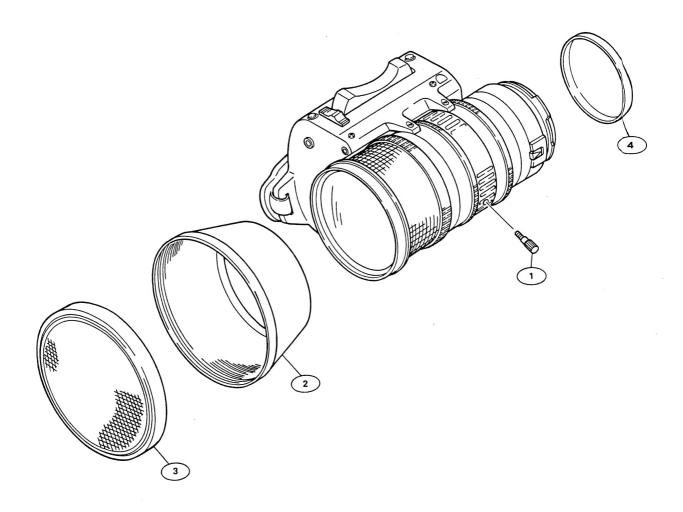


Design and specifications are subject to change without notice.

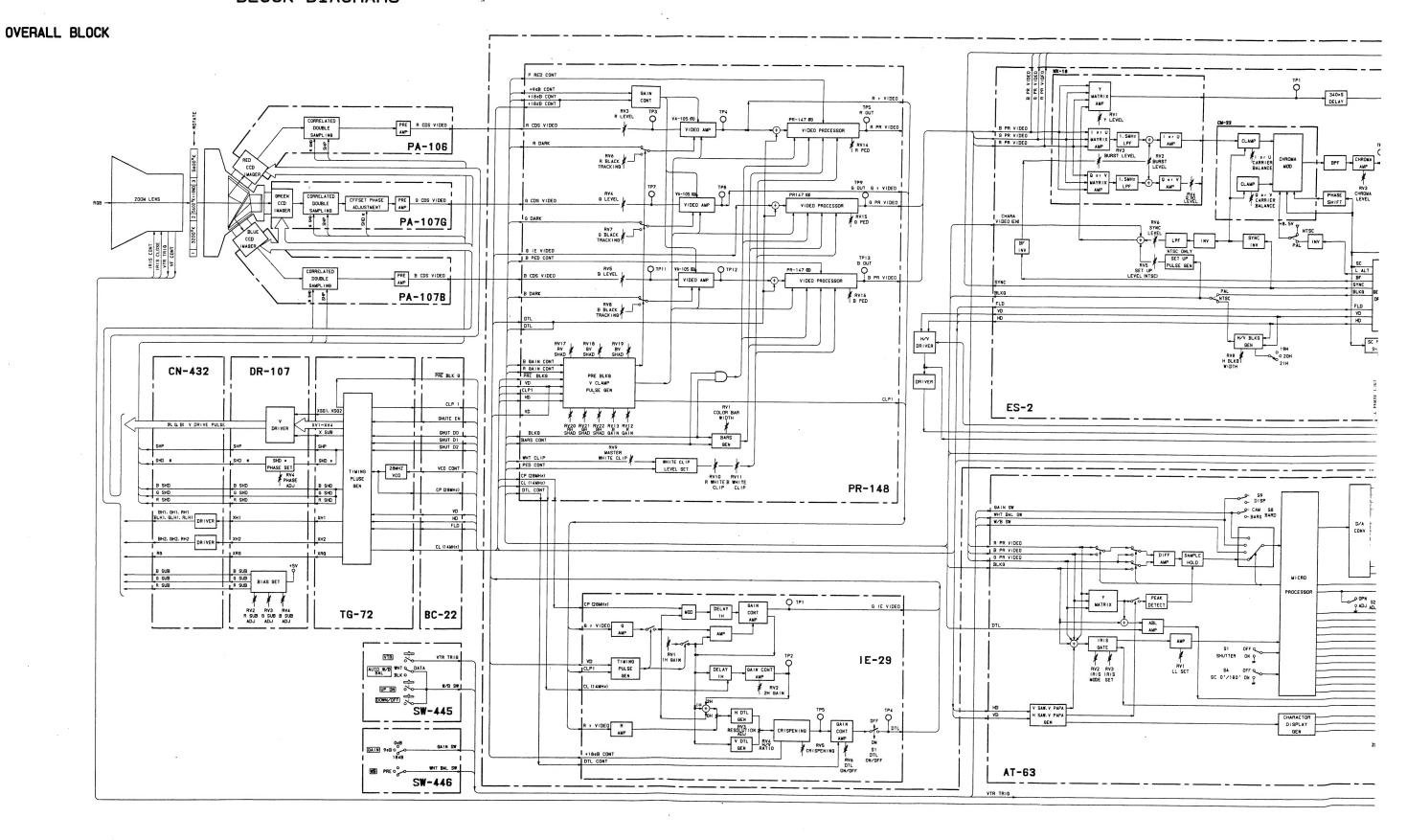


Part No. SP Description No.

3-707-247-01 o LEVER, ZOOM 3-708-108-01 o HOOD 3-708-109-01 o CAP, HOOD 3-708-110-01 o CAP, DUST



# SECTION A BLOCK DIAGRAMS



DXC-327 (J, UC) DXC-327P (EK)

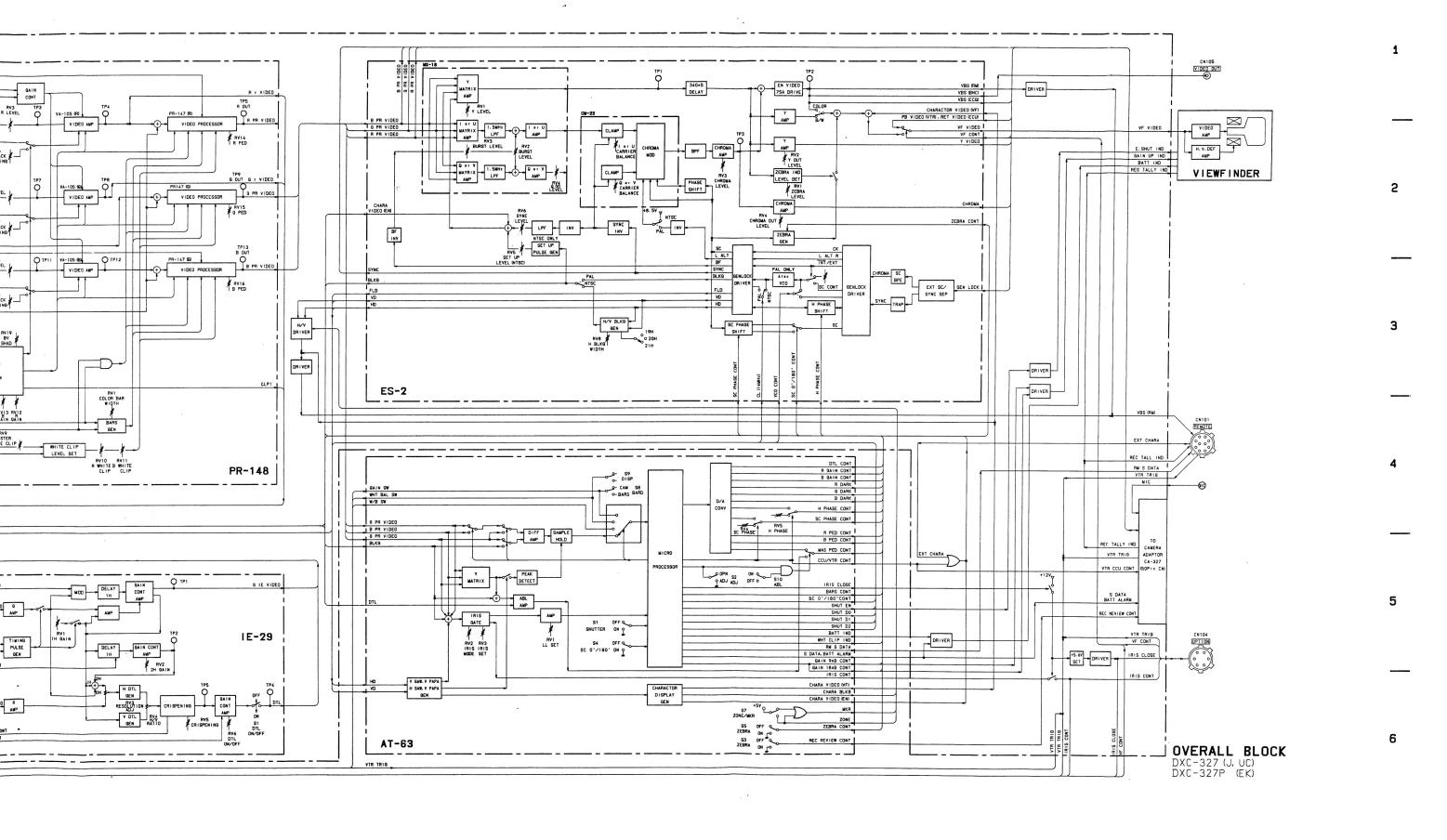
A-1

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A-2

F

G



A-2
D | F | G | H | I

CCD BLOCK

1

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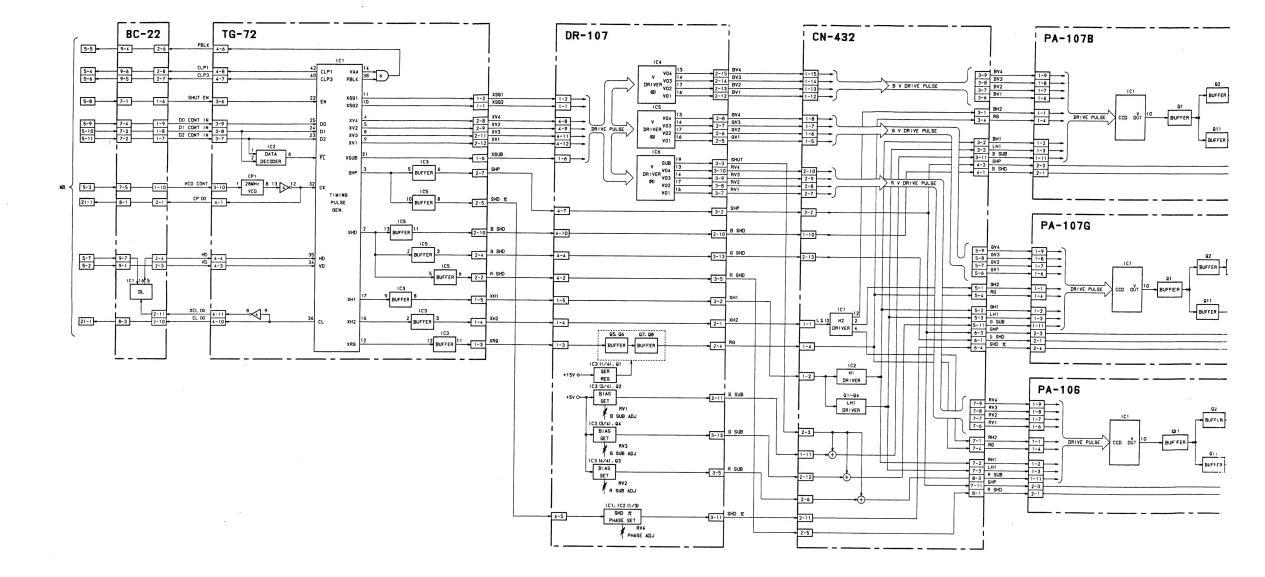
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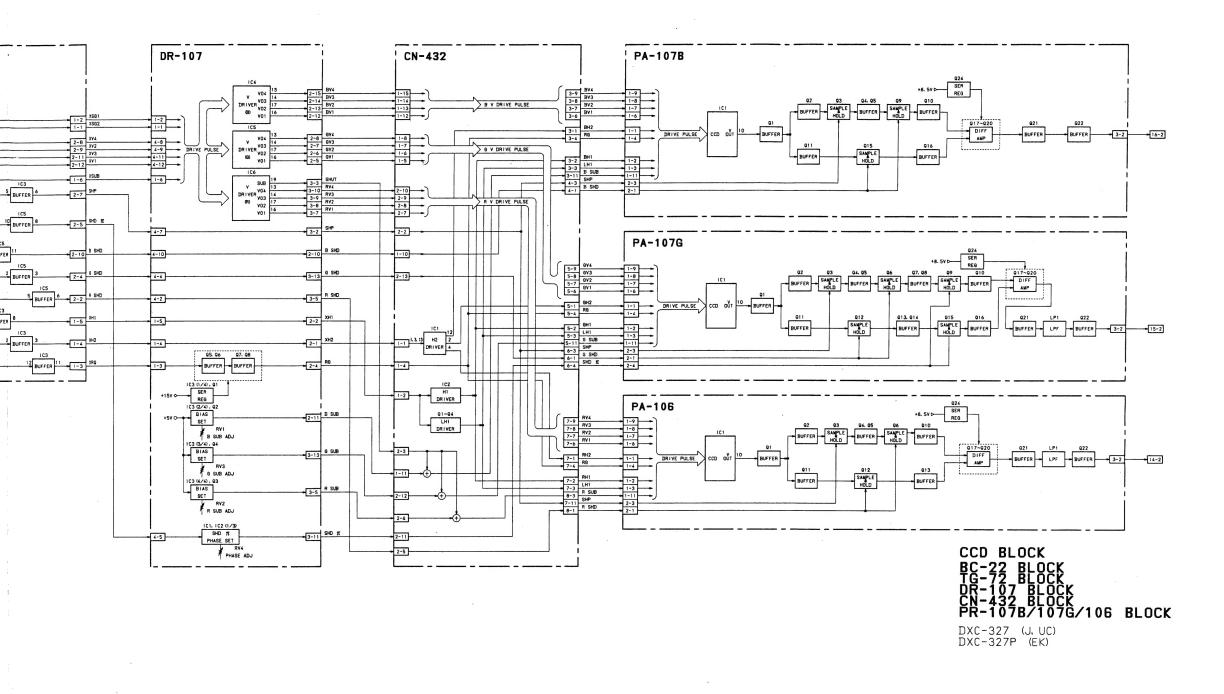
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4

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6`





A-5
E F G DXC-327 (J, UC)
DXC-327P (EK)

I

## 13 0.00 23 ## 15 05 10 ## 1

3

6

DXC-327 (J, UC) DXC-327P (EK)

A-7

A-7

С

1

D

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B-DXC327-IE29BLOCK/M

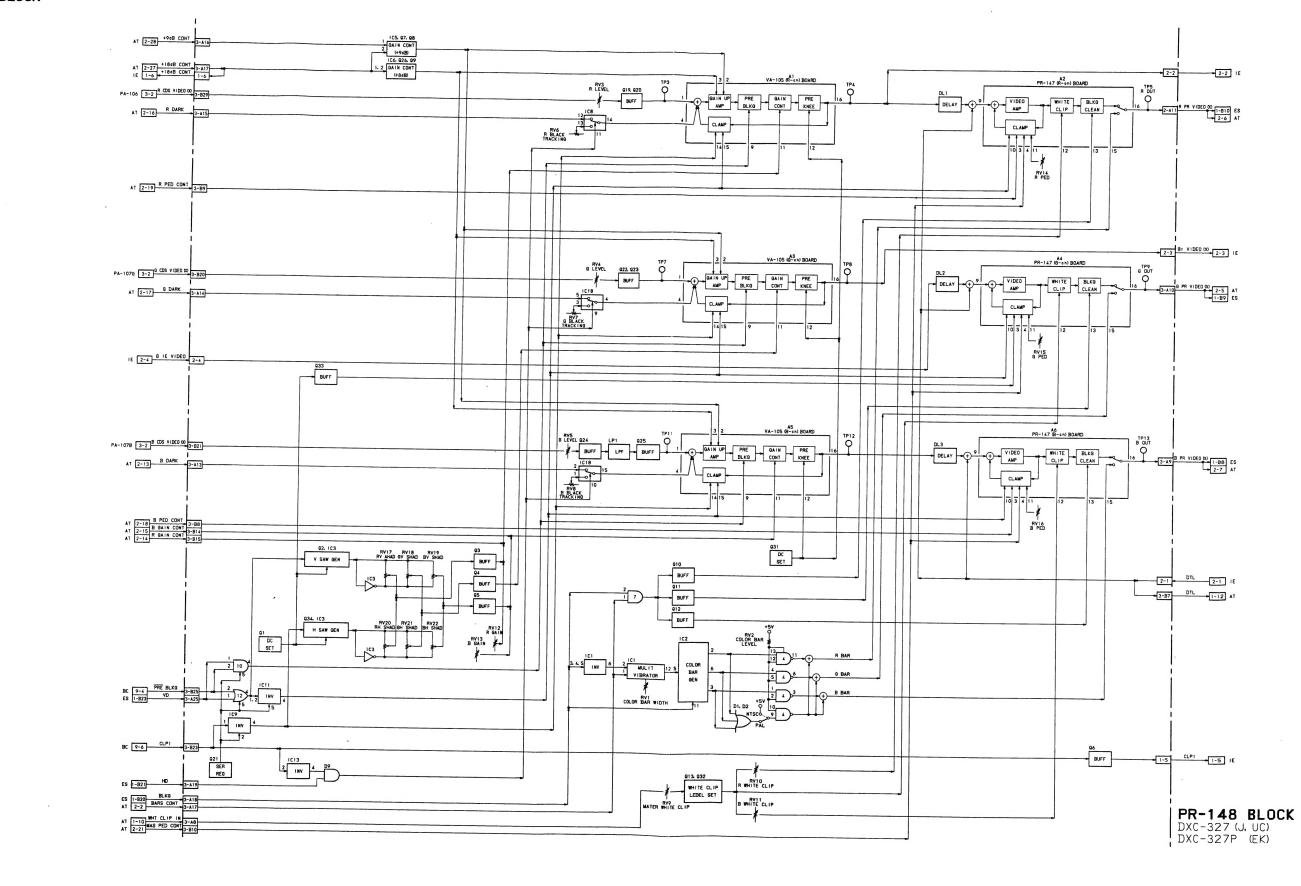
PR-148 BLOCK

2

3

5

6



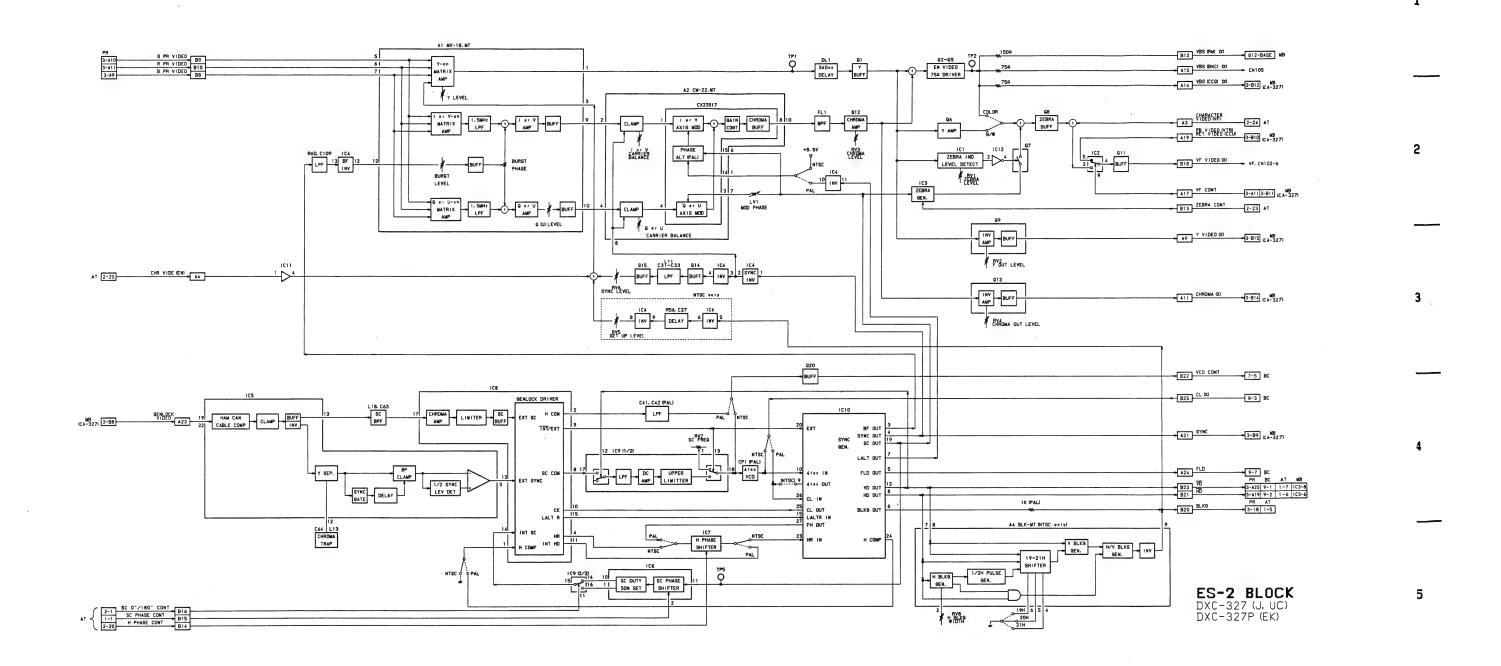
B-DXC327-PR148BLOCK/M

A-10

DXC-327 (J, UC)

DXC-327 (EK)

A B C D E I F



6

DXC-327 (J, UC) DXC-327P (EK)

A-11 B

С

A-12 |

B-DXC327-ES2BLOCK/M

# AT-63 BLOCK

6

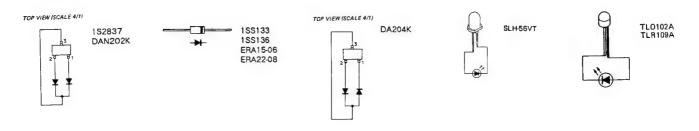
12 BUFF 14 12 BUFF 14 12 BUFF 14 2-15 B BAIN CONT 3-B14 PR 5 BUFF 4 3 | C15 | 1 | S | BUFF | 1 | C14 | S | BUFF | 1 | C14 | S | BUFF | 1 | BUFF | 2-19 R PED CONT 3-B9 PR 2-18 B PED CONT 3-B8 PR RESET 11 PR 3-87 DETAIL 1-12 AT-63 BLOCK DXC-327 (J. UC) DXC-327P (EK)

A-13 B-DXC327-AT63BLOCK/M DXC-327 (J, UC) DXC-327P (EK) A-14

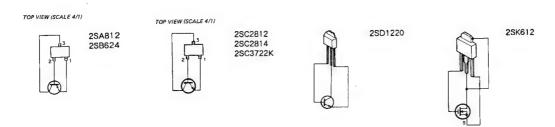
# SECTION B SEMICONDUCTOR PIN ASSIGNMENTS

The circuit diagram of IC is obtained from the IC data book published by the manufacturer.

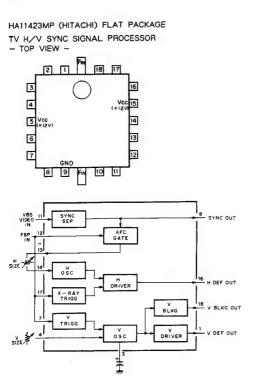
## < DIODE >



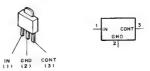
# <TRANSISTOR >



# <IC>



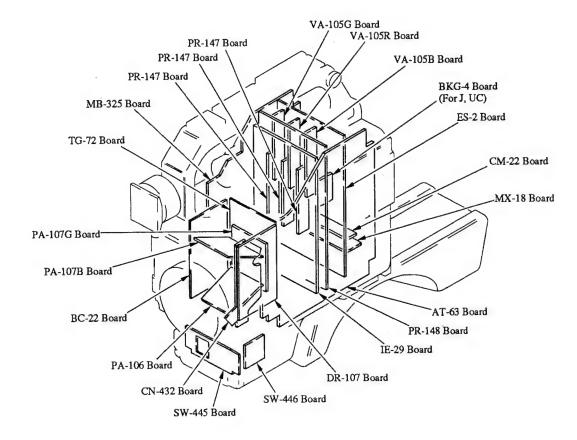
M5236ML (MITSUBISI) ADJUSTABLE VOLTAGE REGULATOR



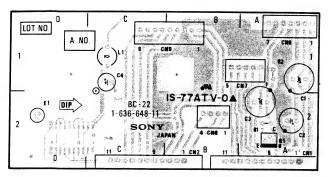
UPC358G2 (NEC) FLAT PACKAGE
DUAL OPERATIONAL AMPUFIERS
- TOP VIEW 
10 7 6 5



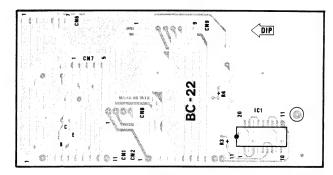
# SECTION C SCHEMATIC DIAGRAMS AND BOARD ILLUSTRATIONS



# BC-22 BOARD

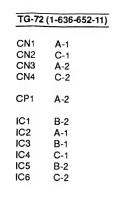


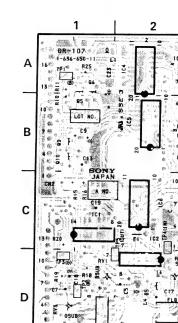
1-636-648-11 COMPONENT SIDE



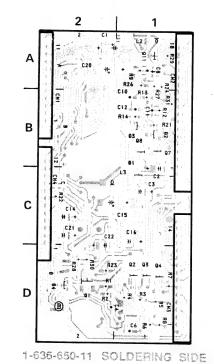
1-636-654-11 SOLDERING SIDE

# TG-72 BOARD









# DR-107 BOARD

DR-107 (1-636-650-11)

A-1 D-1 C-2

B-1

D-2

C-2 D-1

A-2 B-2 C-2

D-2 D-1 D-1 B-1 A-1 B-1 B-1 B-1 A-1

D-1 D-1 D-1 D-2

D-2

A-1 D-1 D-1 C-2 C-2

CN1 CN2 CN3 CN4

D1 D2 D4 D5

IC1 IC2 IC3 IC4 IC5 IC6

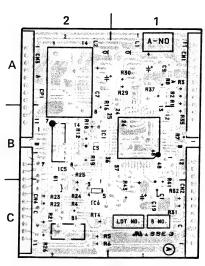
Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11

RV1 RV2 RV3 RV4

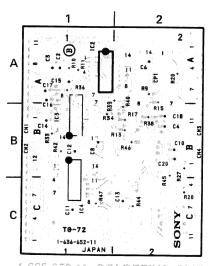
S1

TP1

TP2 TP3 TP4 TP5



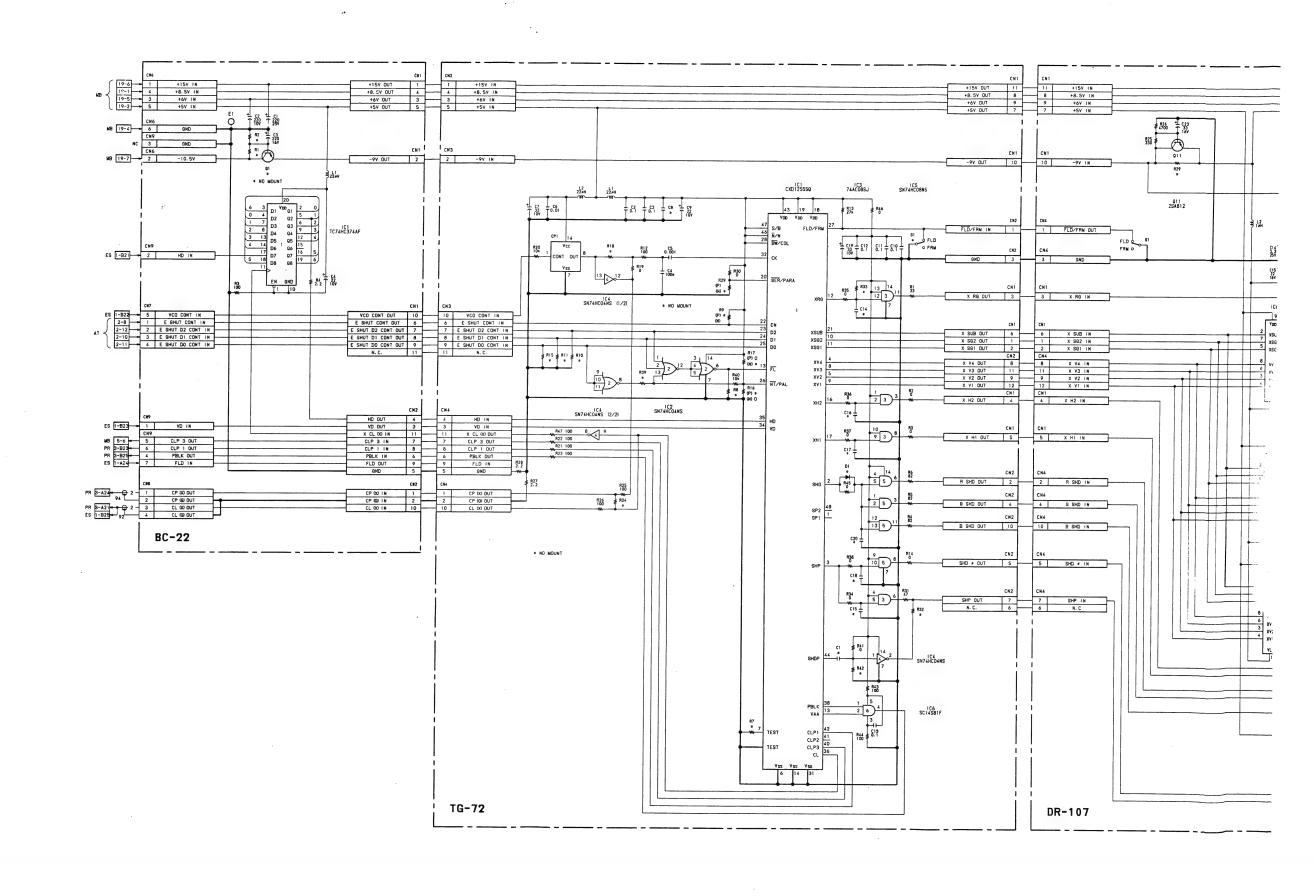
1-636-652-11 COMPONENT SIDE



1-636-652-11 SOLDERING SINE

CCD BLOCK (1/2)

BC-22 BOARD TG-72 BOARD DR-107 BOARD



DXC-327 (J, UC) DXC-327P (EK)

C-5 B

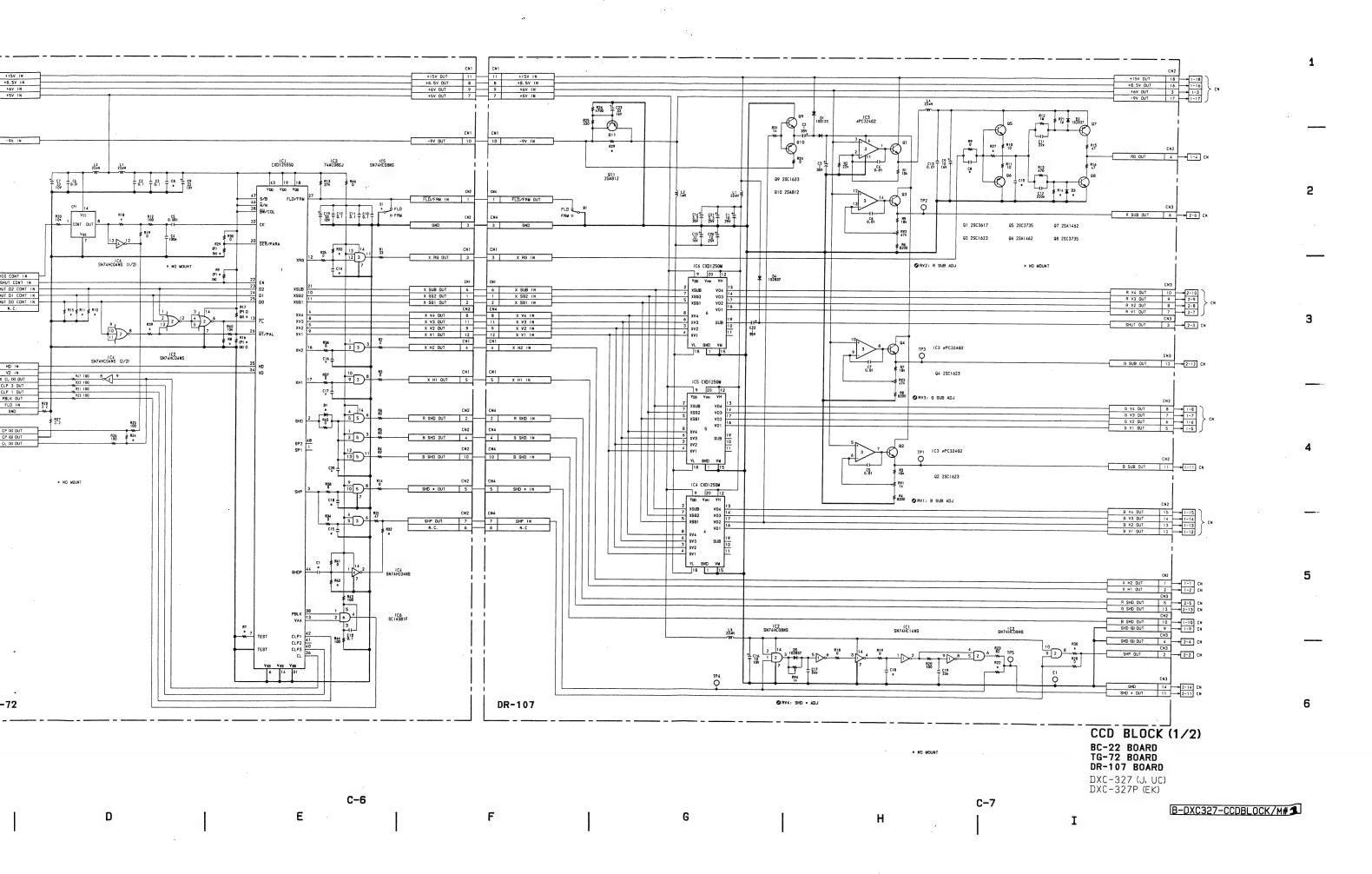
C

1

E

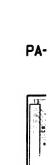
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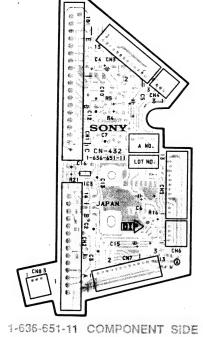


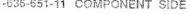
PA-

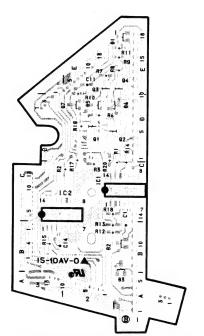






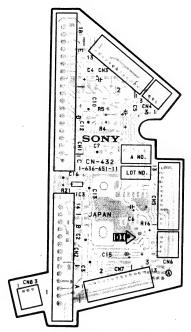




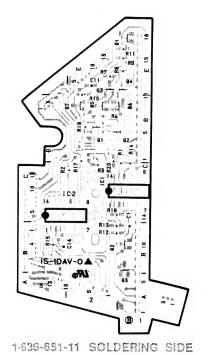


1-636-651-11 SOLDERING SIDE

# CN-432 BOARD



1-636-651-11 COMPONENT SIDE



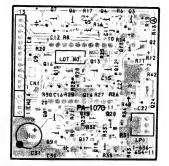
PA-106 BOARD



1-636-653-11 COMPONENT SIDE



# PA-107G BOARD

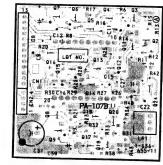


1-636-654-11, 12 COMPONENT SIDE



1-636-654-11, 12 SOLDERING SIDE

# PA-107B BOARD



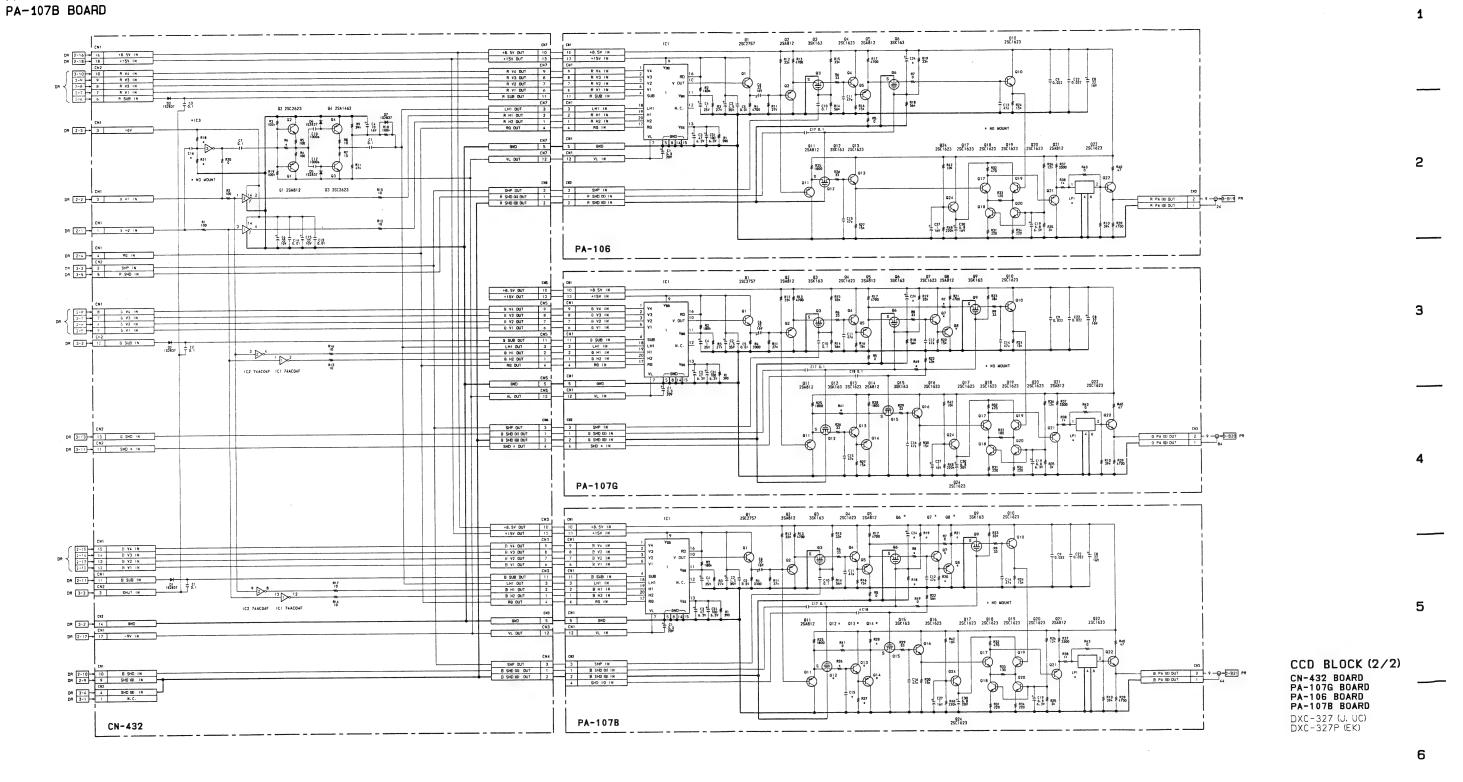
1-636-655-11, 12 COMPONENT SIDE



1-636-655-11, 12 SOLDERING SIDE

CCD BLOCK (2/2)

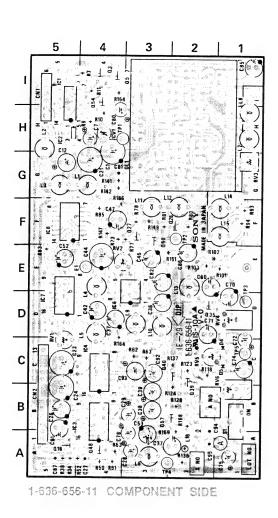
CN-432 BOARD PA-106 BOARD PA-107G BOARD

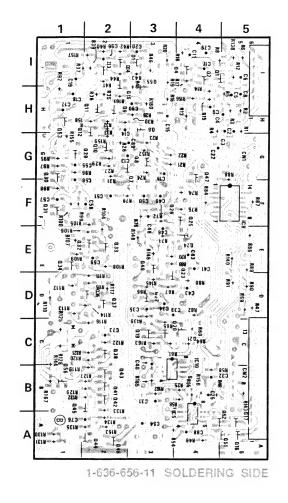


DXC-327 (J, UC) DXC-327P (EK) C-12 B-DXC327-CCDBLOCK/M#2 C-11 C Ε

# IE-29 BOARD

E-29 (1-636  CN1 G-5  CN2 B-5  DL1 G-3  D1 I-3  D4 C-1  D5 C-1  E1 E-5  IC2 G-5  IC3 B-5  IC4 C-4  IC5 A-4  IC6 D-4  IC7 D-5  IC8 F-5  IC9 F-5  IC10 C-4		
CN2 B-5  DL1 G-3  D1 I-3  D4 C-1  D5 C-1  E1 E-5  IC1 I-5  IC2 G-5  IC3 B-5  IC4 C-4  IC5 A-4  IC6 D-4  IC7 D-5  IC8 F-5  IC9 F-5	5-656-11)	
D1 I-3 D4 C-1 D5 C-1 E1 E-5 IC1 I-5 IC2 G-5 IC3 B-5 IC4 C-4 IC5 A-4 IC6 D-4 IC7 D-5 IC8 F-5 IC9 F-5		A-2 A-4 E-3
D4 C-1 D5 C-1 E1 E-5 IC1 I-5 IC2 G-5 IC3 B-5 IC4 C-4 IC5 A-4 IC6 D-4 IC7 D-5 IC8 F-5 IC9 F-5		F-3 A-5
IC1 I-5 IC2 G-5 IC3 B-5 IC4 C-4 IC5 A-4 IC6 D-4 IC7 D-5 IC8 F-5 IC9 F-5	Q52 Q53 Q54 Q55	A-5 H-1 I-4 I-3
IC2 G-5 IC3 B-5 IC4 C-4 IC5 A-4 IC6 D-4 IC7 D-5 IC8 F-5 IC9 F-5	Q56 Q57	B-1 B-3
IC9 F-5	RV1 RV2 RV3 RV4 RV5 RV6	C-5 E-4 G-1 D-1 C-2 C-1
1010 0-4	S1	B-1
Q1	TP1 TP2 TP3 TP4 TP5	G-4 F-2 E-1 A-3 C-1





IE-29	(1-636-656-11)		
CN1 CN2	G-5 B-5	Q46 Q48 Q49	A-2 A-4 E-3
DL1	G-3	Q50 Q51	F-3 A-5
D1 D4 D5	I-3 C-1 C-1	Q52 Q53 Q54 Q55	A-5 H-1 I-4 I-3
E1	E-5	Q56 Q57	B-1 B-3
IC1 IC2 IC3 IC4 IC5 IC6 IC7 IC8	I-5 G-5 B-5 C-4 A-4 D-4 D-5 F-5	RV1 RV2 RV3 RV4 RV5 RV6	C-5 E-4 G-1 D-1 C-2 C-1
IC9 IC10	F-5 C-4	S1	B-1
C9 IC10 Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q13 Q14 Q15 Q16 Q17 Q18 Q19 Q21 Q22 Q23 Q24 Q25 Q26 Q27 Q28	F-5 C-4 I-4 I-4 I-3 I-3 I-3 I-3 I-3 I-2 I-2 I-2 I-2 I-2 I-2 I-2 I-2 I-2 I-2	TP1 TP2 TP3 TP4 TP5	G-4 F-2 E-1 A-3 C-1
Q29 Q30 Q31 Q32 Q33 Q34 Q35 Q36 Q37 Q38 Q39 Q40 Q41 Q42 Q43 Q44 Q45	G-2 G-1 F-1 E-2 E-1 D-2 D-2 D-2 C-2 B-2 C-3 B-2 B-2 B-2 B-2 B-2 B-2 B-2 B-2		

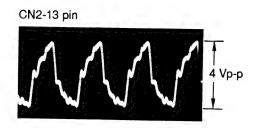
DXC-327 (J, UC) DXC-327P (EK)

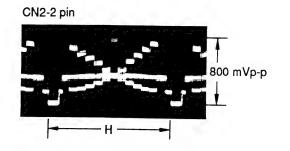
# IE-29 BOARD

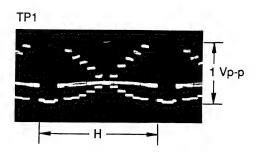
## NOTE:

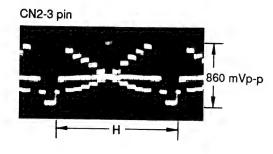
- 1. All voltage are DC, measured with a digital voltmeter.
- 2. All waveforms are taken and DC voltage is measured in condition below.
- Shoot the grayscale chart. Adjust lens iris so that a white level is 100 IRE on the waveform monitor.
- GAIN : 0 dB • WHITE BAL : PRE ABL : OFF • SHUTTER : OFF
- ZEBRA : OFF • VF MARKER: OFF PHASE : 0° • BARS

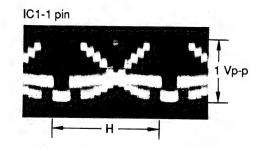
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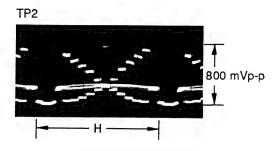


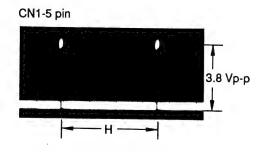


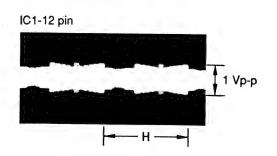


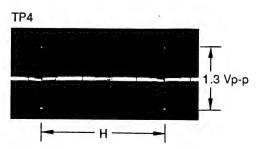




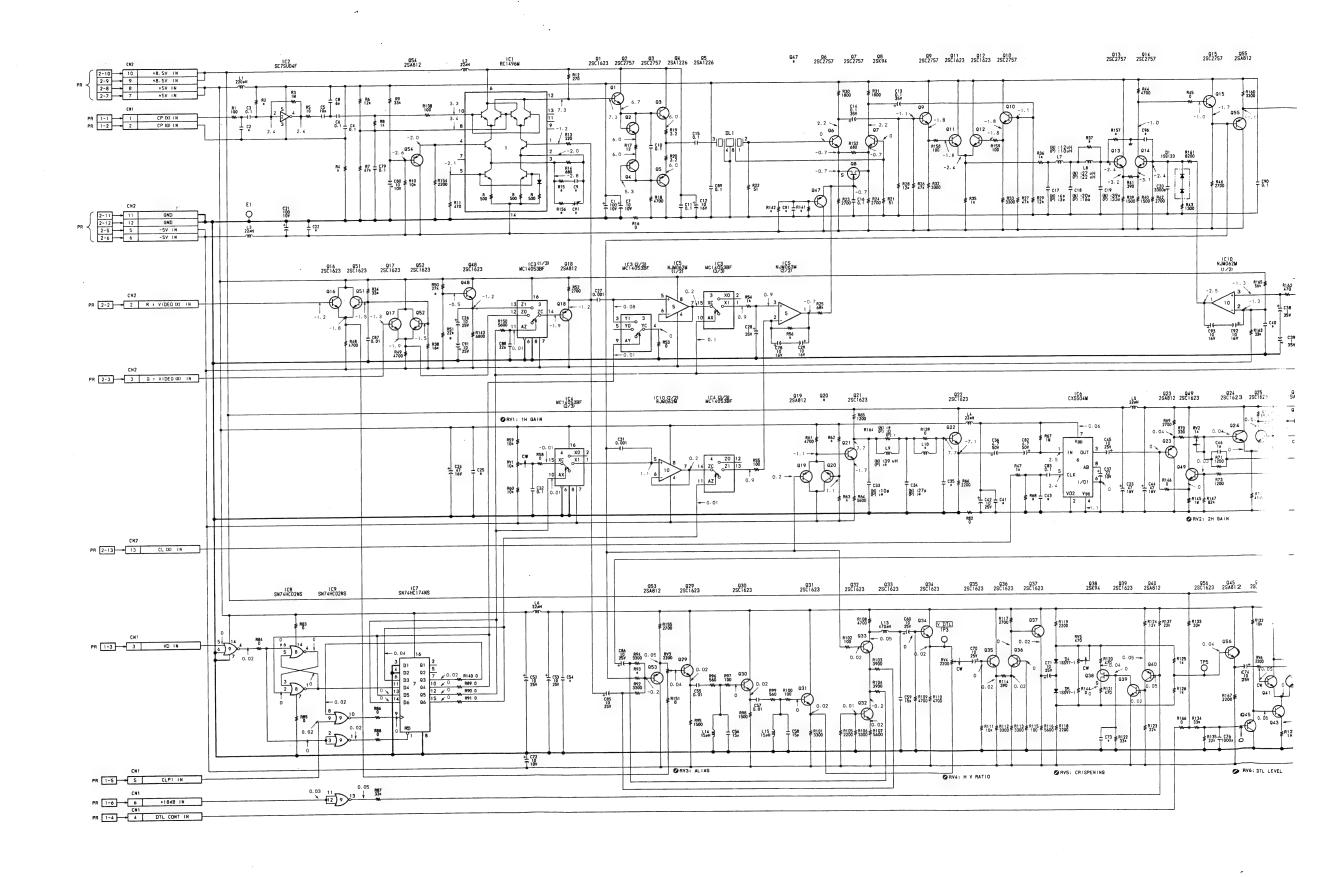








IE-29 BOARD



DXC-327 (J, UC) DXC-327P (EK)

C-19 B

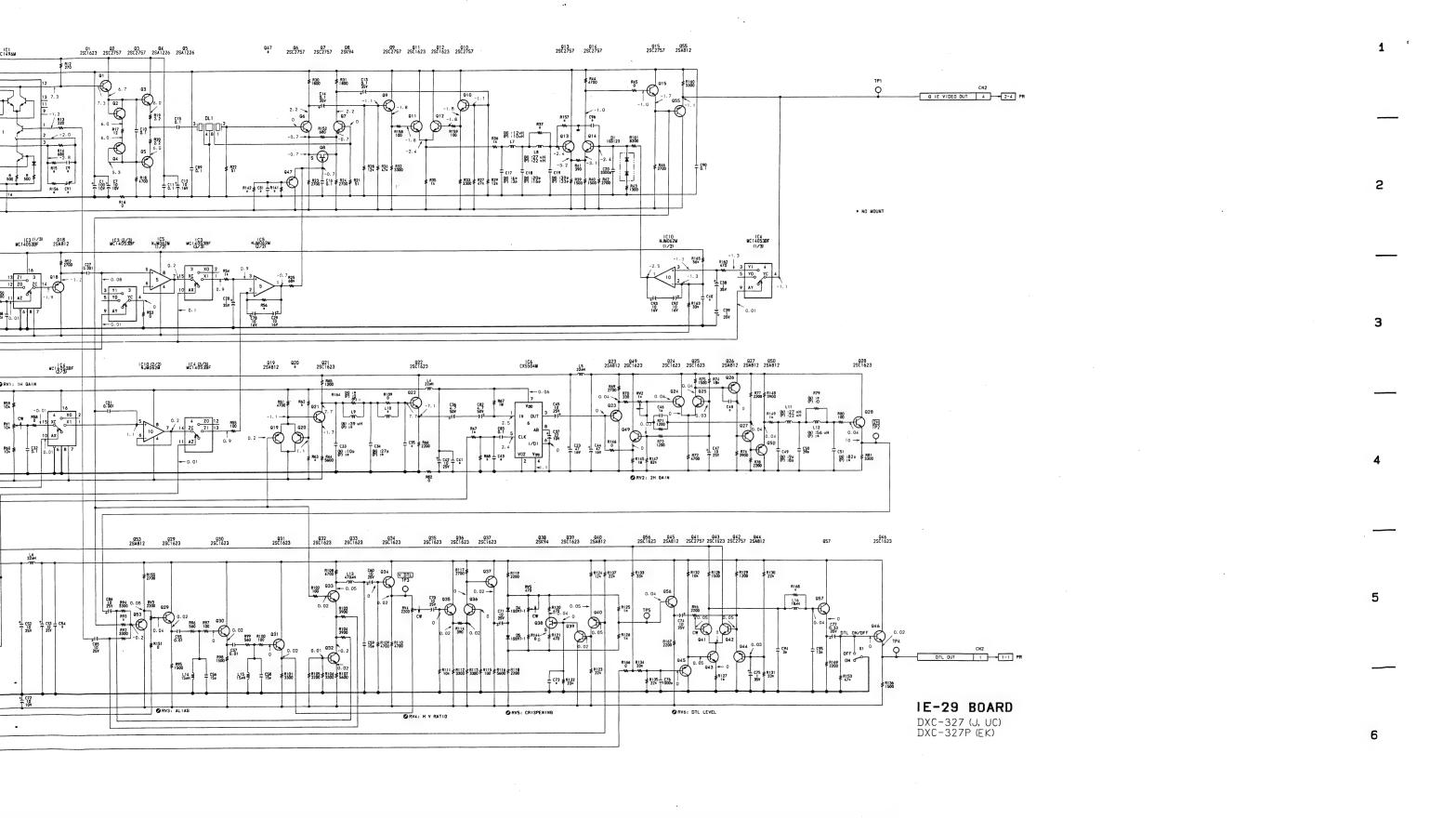
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C-50

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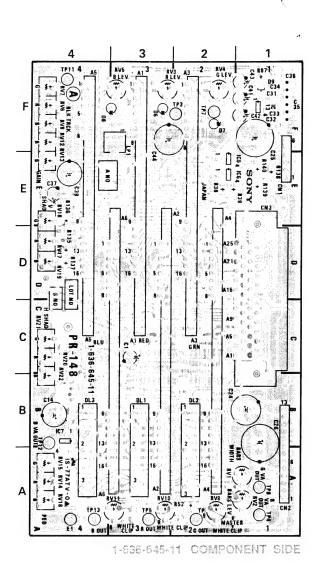


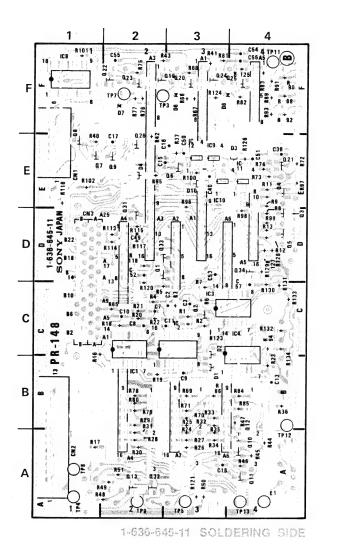
C-20

D | F | G | H | I

# PR-148 BOARD

PR-148	3 (1-636-645-11)		
CN1 CN2 CN3	E-1 A-1 E-1	RV1 RV2 RV3 RV4	A-2 A-1 F-3 F-2
DL1 DL2 DL3	B-3 B-2 B-4	RV5 RV6 RV7 RV8	F-3 F-4 F-4 F-4
D3 D4 D6 D7 D8 D9 D10	E-4 E-2 F-3 F-2 F-4 F-1 E-3	RV9 RV10 RV11 RV12 RV13 RV14 RV15	A-2 A-3 A-3 F-4 E-4 A-4 A-4
E1	A-4	RV16 RV17	A-4 D-4
IC1 IC2 IC3 IC4 IC5	B-2 C-3 C-3 C-4 E-1	RV18 RV19 RV20 RV21 RV22	E-4 D-4 C-4 C-4
IC6 IC7 IC8 IC9 IC10 IC11 IC12 IC13	E-1 B-4 F-1 E-3 E-3 E-4 E-3 F-1	TP3 TP4 TP5 TP7 TP8 TP9 TP11 TP12 TP13	F-2 A-1 A-3 F-2 A-1 A-2 F-4 B-4 A-4
LP1	F-3	1113	M-4
Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q13 Q19 Q20 Q21 Q22 Q23 Q24 Q25 Q26 Q31 Q32 Q32 Q33 Q34	D-2 C-3 D-4 E-4 D-4 E-3 E-1 E-2 A-4 A-2 F-3 F-3 F-2 F-2 F-2 F-2 F-2 F-2 F-2 F-2 F-2 F-3 C-2 F-3 F-3 C-2 F-3 C-2 F-3 C-2 F-3 C-2 F-3 C-2 F-2 F-2 F-2 F-2 F-2 F-2 F-2 F-2 F-2 F		





		<del>-</del>		
CN1 CN2 CN3 DL1 DL2 DL3	E-1 A-1 E-1 B-3 B-2 B-4	RV1 RV2 RV3 RV4 RV5 RV6 RV7	A-2 A-1 F-3 F-2 F-3 F-4 F-4	
D3 D4 D6 D7 D8 D9 D10	E-4 E-2 F-3 F-2 F-4 F-1 E-3	RV8 RV9 RV10 RV11 RV12 RV13 RV14 RV15	F-4 A-2 A-3 A-3 F-4 E-4 A-4	
E1	A-4.	RV16 RV17 RV18	A-4 D-4 E-4	
IC1 IC2 IC3 IC4 IC5	B-2 C-3 C-3 C-4 E-1	RV19 RV20 RV21 RV22	D-4 C-4 C-4 C-4	
C6 IC7 IC8 IC9 IC10 IC11 IC12 IC13	E-1 B-4 F-1 E-3 E-3 E-4 E-3 F-1	TP3 TP4 TP5 TP7 TP8 TP9 TP11 TP12	F-2 A-1 A-3 F-2 A-1 A-2 F-4 B-4	
_P1	F-3	TP13	A-4	
21 22 23 34 24 25 26 27 28 29 20 20 20 20 21 21 22 22 22 22 23 33 33 34	D-2 C-3 D-4 E-4 D-4 E-3 E-1 E-1 E-2 A-4 A-4 B-4 A-2 F-3 F-3 F-3 F-4 F-2 F-2 F-2 D-2 D-4			

PR-148 (1-636-645-11)

PR-148 (1-636-645-11)

E-1

B-2 B-4 E-4 E-2

F-3 F-2 F-4 F-1 E-3

A-4

B-2 C-3 C-4 E-1 E-1 B-4 F-1 E-3 E-3 E-4 E-3 F-1

F-3

D-2 C-3 D-4 E-4 E-4 E-3 E-1 E-1 E-2 A-4 A-2 F-3 E-4 F-2 F-2 D-2 A-2 D-2 RV3

RV13 RV14 RV15 RV16

RV17 RV18

RV19 RV20 RV21

RV22

TP3 F-2
TP4 A-1
TP5 A-3
TP7 F-2
TP8 A-1
TP9 A-2
TP11 F-4
TP12 B-4
TP13 A-4

F-2 F-3 F-4 F-4 A-2 A-3 F-4 A-4 A-4 D-4 C-4 C-4

CN2 CN3

DL2 DL3

D3 D4 D6 D7 D8 D9 D10

E1

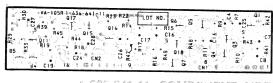
IC1 IC2 IC3 IC4 IC5 IC6 IC7 IC8 IC9 IC10 IC11 IC12 IC13

LP1

Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q10 Q11 Q12 Q13 Q20 Q21 Q22 Q23 Q24 Q25 Q26 Q31 Q32 Q33 Q34

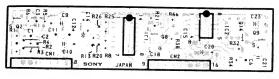
# VA-105R BOARD

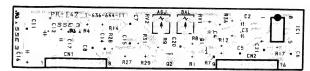
# PR-147R/G/B BOARD



1-636-641-11 COMPONENT SIDE

1-636-644-11 COMPONENT SIDE

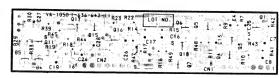




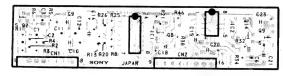
1-636-641-11 SOLDERING SIDE

1-836-844-11 SOLVERING SIDE

# VA-105G BOARD

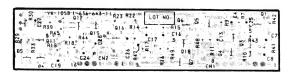


1-636-642-11 COMPONENT SIDE

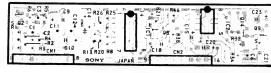


1-636-642-11 SOLDERING SIDE

## VA-105B BOARD



1-636-643-11 COMPONENT SIDE



1-636-643-11 SOLDERING SIDE

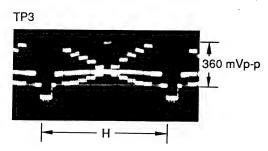
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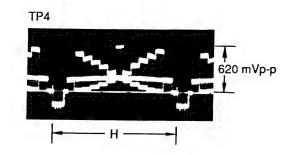
1-636-645-11 SOLDERING SIDE

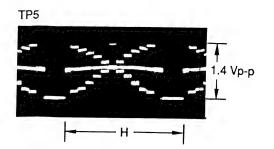
# PR-148 BOARD

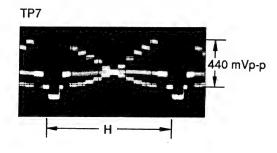
# NOTE:

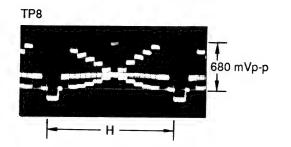
- All voltage are DC, measured with a digital voltmeter.
   All waveforms are taken and DC voltage is measured in condition below.
  - Shoot the grayscale chart. Adjust lens iris so that a white level is 100 IRE on the waveform monitor.
  - GAIN : 0 dB
  - WHITE BAL : PRE
  - ABL : OFF
  - SHUTTER : OFF
- ZEBRA : OFF
- VF MARKER: OFF
- PHASE : 0°
- BARS : OFF

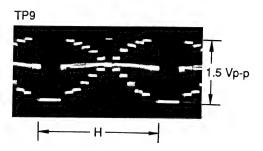


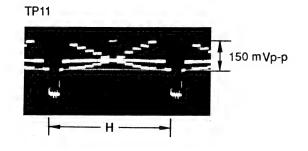


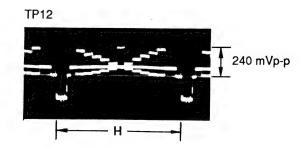


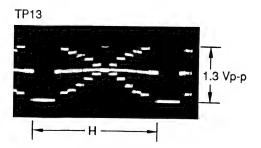




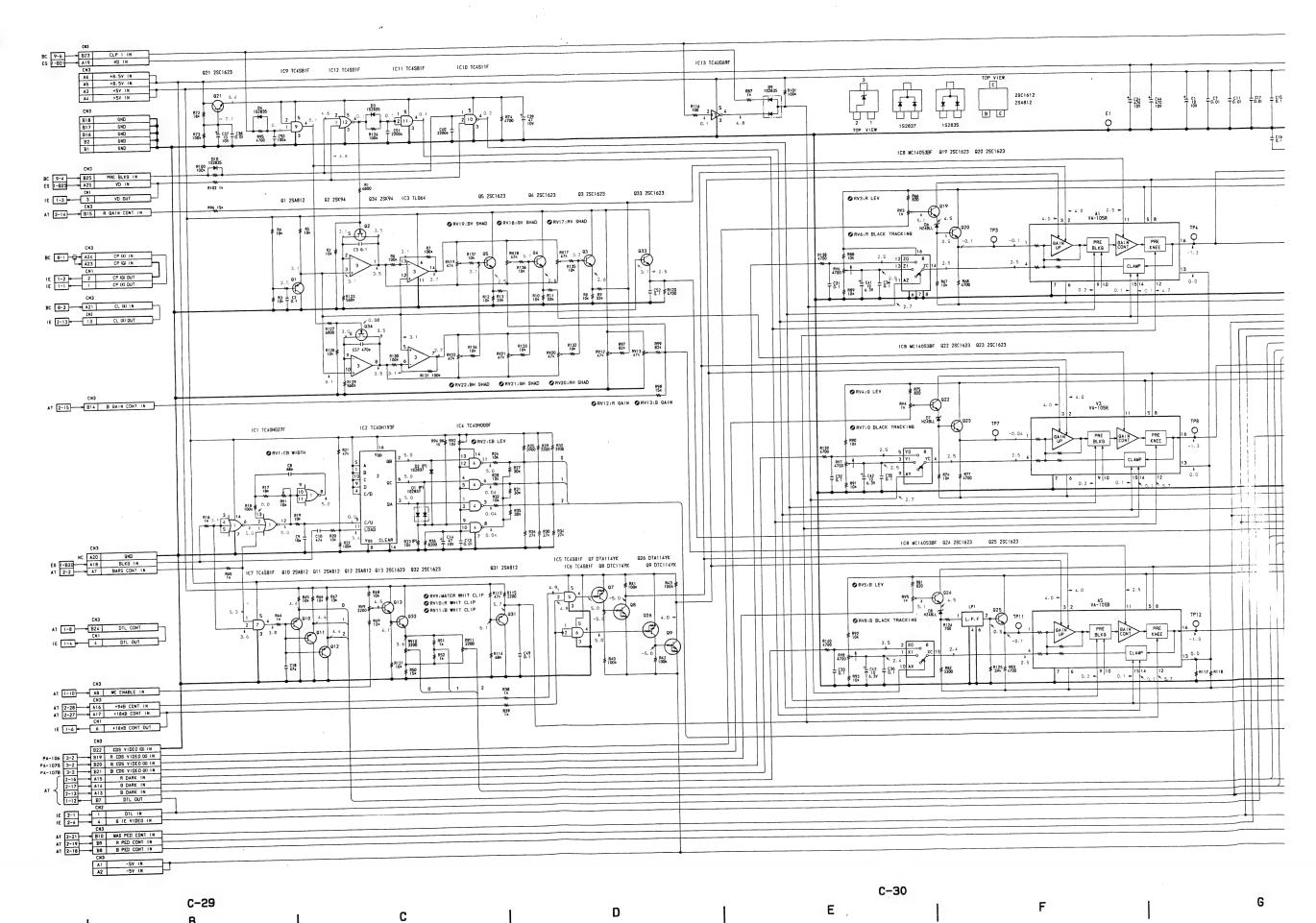






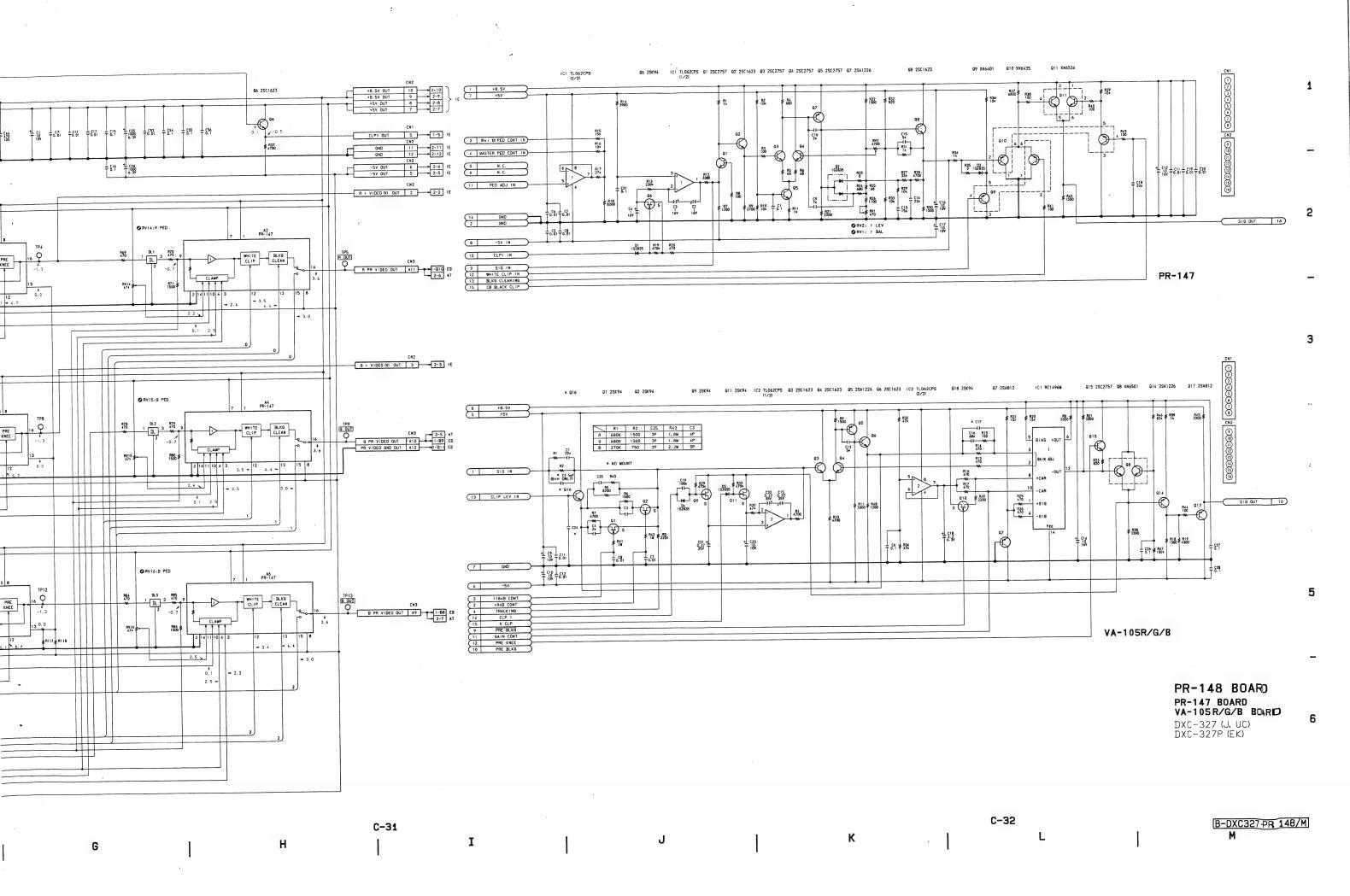


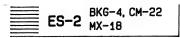
PR-148 BOARD VA-105R/G/B BOARD PR-147R/G/B BOARD



DXC-327 (J. UC) DXC-327P (EK)

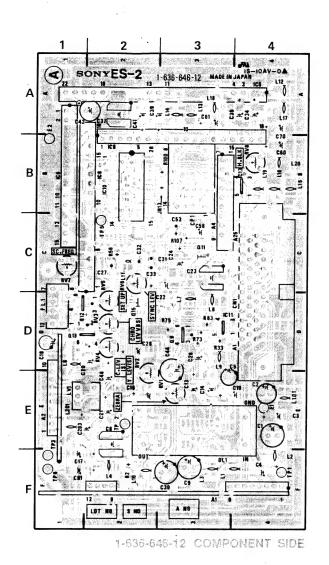
В

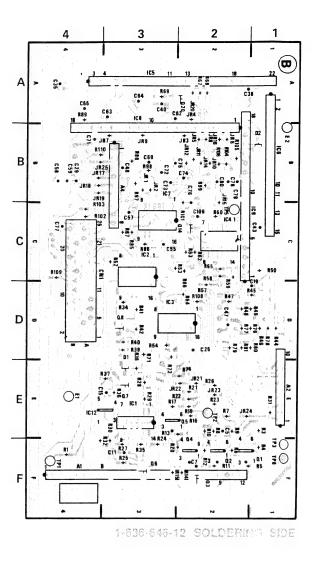




# ES-2 BOARD

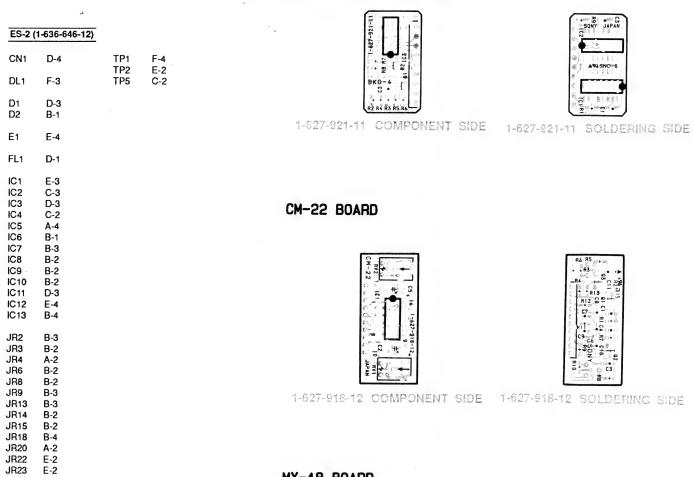
ES-2	1-636-6	46-12)		
CN1	D-4		TP1	F-4
DL1	F-3		TP2 TP5	E-2 C-2
D1 D2	D-3 B-1			
E1	E-4			
FL1	D-1			
IC1 IC2 IC3 IC4 IC5 IC6 IC7 IC8 IC9 IC10 IC11 IC12 IC13	E-3 C-3 D-3 C-2 A-4 B-1 B-3 B-2 B-2 D-3 E-4 B-4			
JR2 JR3 JR4 JR6 JR8 JR9 JR13 JR14 JR15 JR18 JR20 JR22 JR23	B-3 B-2 B-2 B-3 B-3 B-2 B-4 A-2 E-2			
LV1	E-1			
Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q11 Q12 Q13 Q14 Q15 Q20	F-1 F-2 F-2 F-2 E-3 D-3 D-3 C-3 D-1 D-1 C-2 D-2 A-2			
RV1 RV2 RV3 RV4 RV5 RV6 RV7 RV8	E-3 D-2 D-2 D-2 C-2 C-2 C-1 B-4		·	



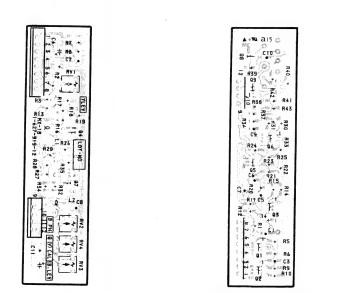


# 1-636-646-12 SOLDERING SIDE

# BKG-4 BOARD (NTSC ONLY)



# MX-18 BOARD



1-627-918-12 COMPONENT SIDE 1-627-918-12 SOLDERING SIDE

1-627-919-12 COMPONENT SIDE 1-627-919-12 SOLDERING SIDE

LV1

Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q11 Q12 Q13 Q14 Q15 Q20

RV1 RV2 RV3 RV4 RV5 RV6 RV7

RV8

E-1

F-1 F-2 F-2 F-2 E-3 E-3 D-3 C-3 D-1 D-1 C-2 D-2 A-2

E-3 D-2 D-2 D-2 C-2 C-2 C-1 B-4

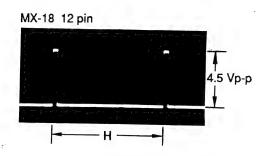
# **ES-2 BOARD**

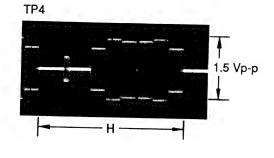
BARS

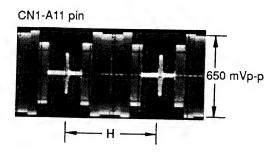
# NOTE:

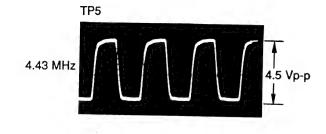
- All voltage are DC, measured with a digital voltmeter.
   All waveforms are taken and DC voltage is measured in condition below.
  - Shoot the grayscale chart. Adjust lens iris so that a white level is 100 IRE on the waveform monitor.
- GAIN : 0 dB • WHITE BAL : PRE • ABL : OFF • SHUTTER : OFF ZEBRA : OFF VF MARKER: OFF PHASE : 0°

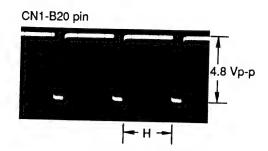
: ON

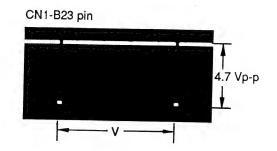


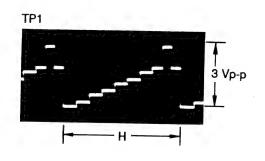


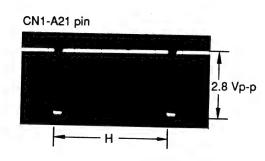


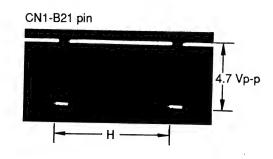


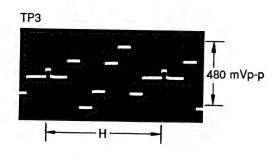


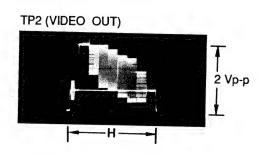


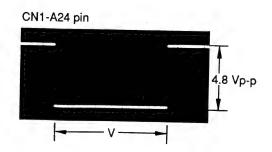


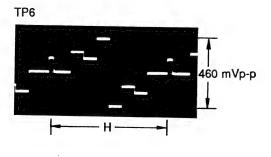


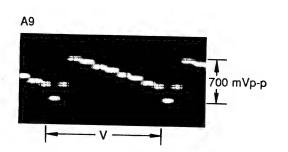




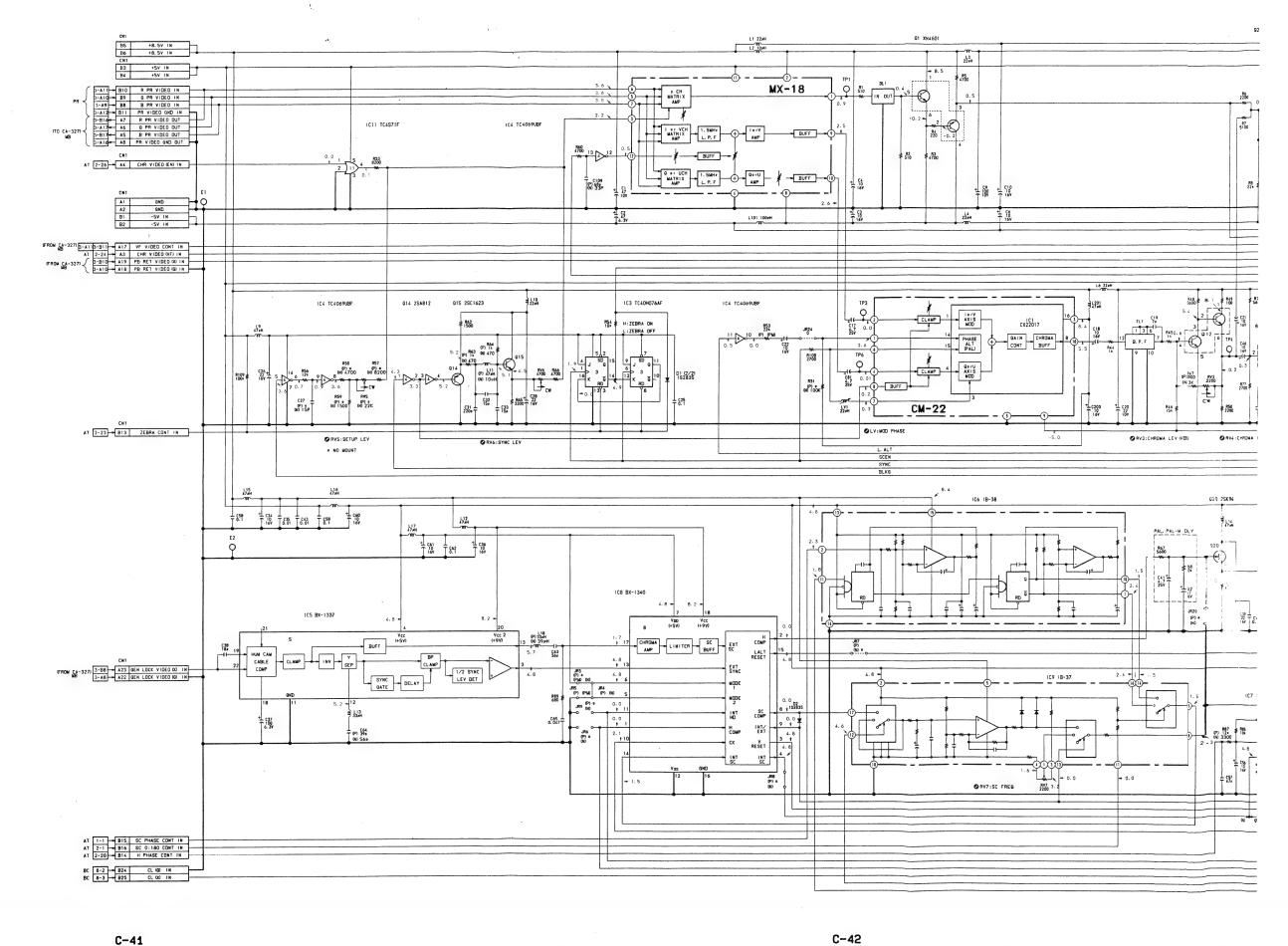








ES-2 BOARD BKG-4 BOARD CM-22 BOARD MX-18 BOARD



DXC-327 (J, UC) DXC-327P (EK)

C-41 B

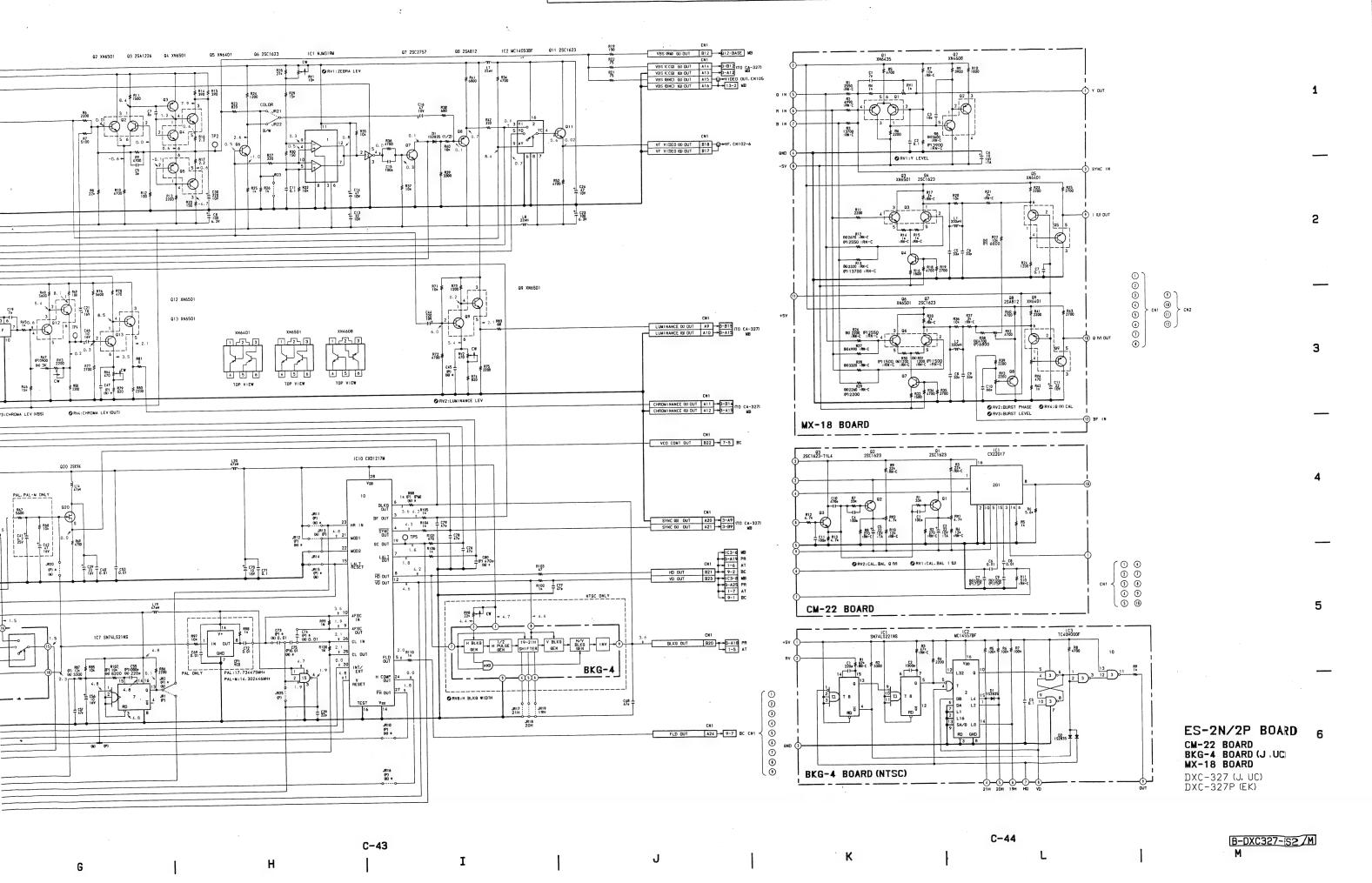
С

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D

E ,

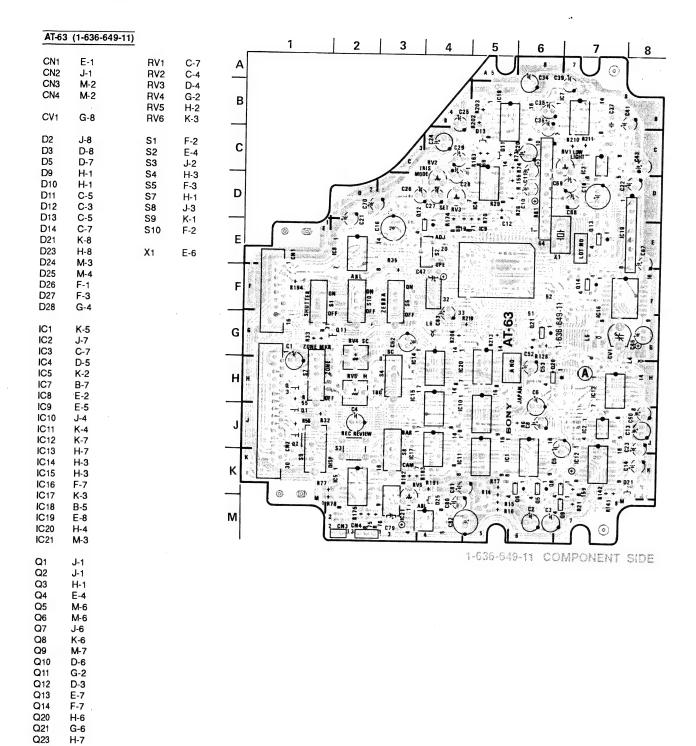
G

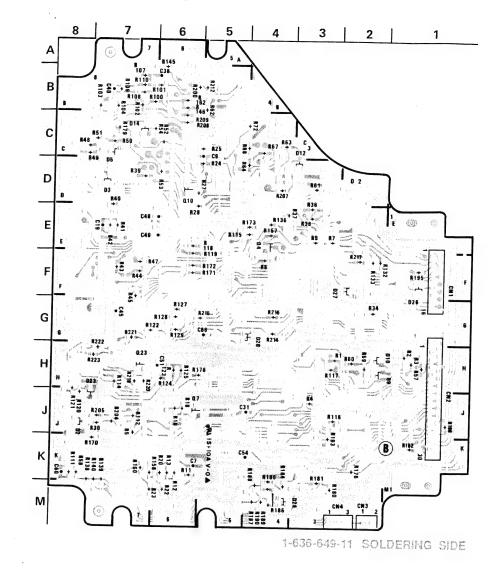


# AT-63 BOARD

RB1

D-6





AT-6	3 (1-636-	649-11)		
CN1 CN2 CN3 CN4	M-2		RV1 RV2 RV3 RV4	C-7 C-4 D-4 G-2
CV1	G-8		RV5 RV6	H-2 K-3
D2 D3 D5 D9 D10 D11 D12 D13 D14 D21 D23 D25 D26 D27 D28	J-8 D-8 D-7 H-1 C-5 C-3 C-5 C-7 K-8 H-8 M-3 M-4 F-1 F-3 G-4		S1 S2 S3 S4 S5 S7 S8 S9 S10	F-2 E-4 J-2 H-3 F-3 H-1 J-3 K-1 F-2
IC1 IC2 IC3 IC4 IC5 IC7 IC8 IC9 IC10 IC11 IC12 IC13 IC14 IC15 IC16 IC17 IC18 IC19 IC20 IC20 IC21	K-5 J-7 C-7 D-5 K-2 B-2 E-5 J-4 K-4 K-7 H-3 F-7 K-3 B-5 E-8 H-4 M-3			
Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q13 Q14 Q20 Q21 Q23	J-1 J-1 H-1 E-4 M-6 J-6 K-6 M-7 D-6 G-2 D-3 E-7 H-6 G-6 H-7			
RB1	D-6			

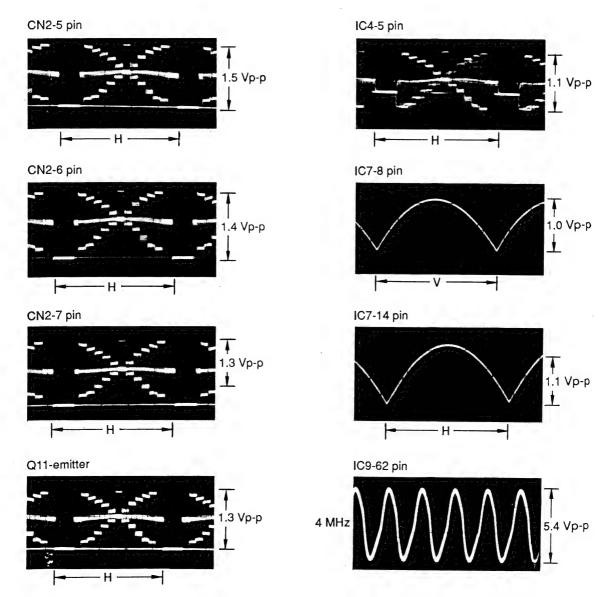
## AT-63 BOARD

NOTE:
1. All voltage are DC, measured with a digital voltmeter.

- 2. All waveforms are taken and DC voltage is measured in condition below.
  - Shoot the grayscale chart. Adjust lens iris so that a white level is 100 IRE on the waveform monitor.

• GAIN : 0 dB • WHITE BAL : PRE : OFF • ABL • SHUTTER : OFF : OFF ZEBRA

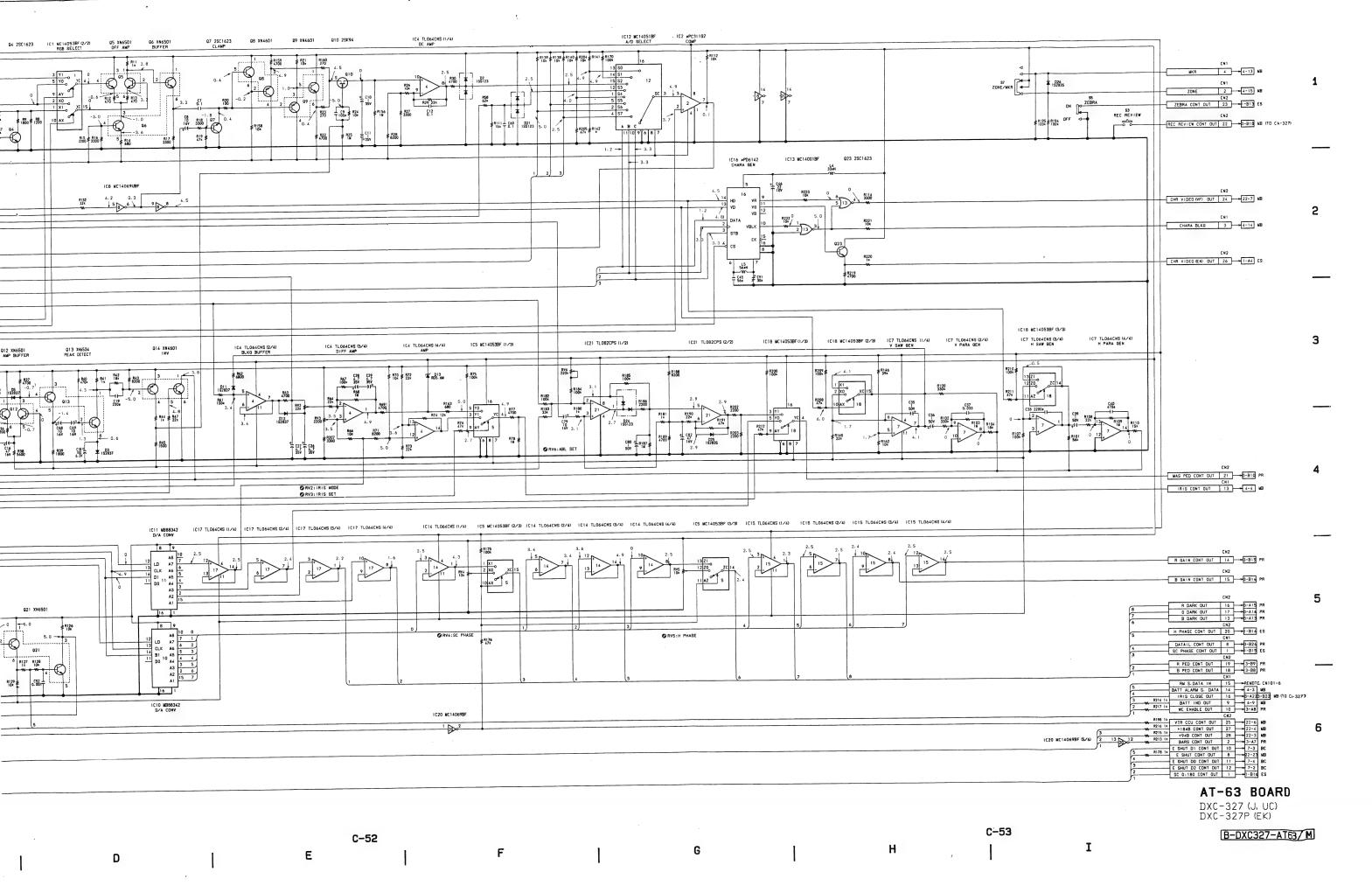
 VF MARKER: OFF : 0° PHASE BARS : OFF



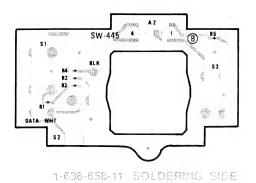
AT-63 BOARD ₹139 ₹138 ₹140 ₹R204 ₹R141 ₹R170 10x ₹10x ₹10x ₹18x R21 R160 270 + c2 + c21 + c23 + c25 + c34 + c43 + c53 + c67 T6.3 V T6.3 V T6.3 V T6.3 V T6.3 V T6.3 V T16V 3.3 IC8 MC14069UBF R132 4.2 0.3 7 8 8 4.5 MB 10-1 ₹ R193 LW2903W (1/2) Q11 2SC1623 IC3 LM2903M (2/2) Q12 XN6501 Y BUFF COMP Y AMP BUFFER Q14 XN4601 BLKG BUFFER Q13 XN6534 PEAK DETECT ₽75 100k RDS. 6M DATA MEMORY IC19 M6W80011 R36 € 6 2200 € R35 C16 1500 47 ₹ R38 16V ₹ 5600 ORV3: IRIS SET R120 ₹ D23 22x ₹ 152837 PRV5:H PHASE IC20 MC14069BF IC9 HD6305Y0E17F WICRO COMPUTER

DXC-327 (J, UC) C-52
DXC-327P (EK)

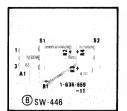
A B C D E F



# SW-445 BOARD



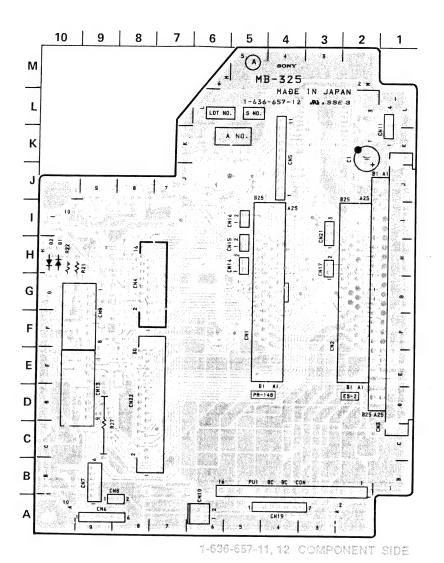
### SW-446 BOARD



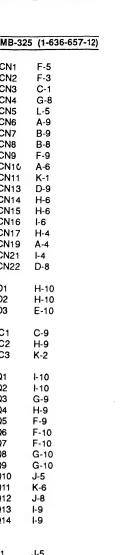
1-639-659-11 SOLDERING SIDE

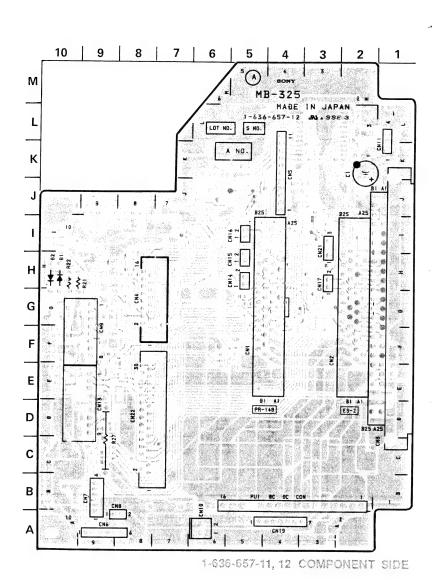
# MB-325 BOARD

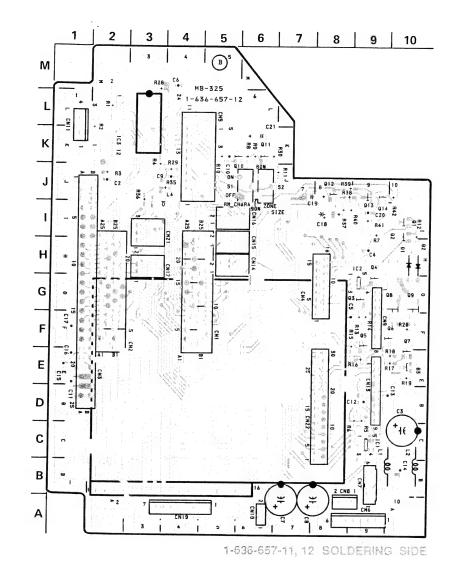
MB-325 (1-636-657-12)				
CN1 CN2 CN3 CN4 CN5 CN6 CN7 CN8 CN10 CN11 CN13 CN14 CN15 CN16 CN17 CN19 CN21	F-5 F-3 C-1 G-8 L-5 A-9 B-9 B-9 K-1 D-9 H-6 H-6 H-4 A-4 I-4 D-8			
D1 D2 D3	H-10 H-10 E-10			
IC1 IC2 IC3	C-9 H-9 K-2			
Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q13 Q14	I-10 I-10 G-9 H-9 F-10 G-10 G-10 J-5 K-6 J-8 I-9			
S1 S2	J-5 J-7			



#### 4B-325 BOARD







MB-325 (1-636-657-12) CN1 CN2 CN3 CN4 CN5 CN6 CN7 CN8 CN9 CN10 CN11 CN13 CN14 CN15 CN16 CN17 F-5 F-3 C-1 G-8 L-5 A-9 B-8 F-9 A-6 K-1 D-9 H-6 H-6 H-4 CN19 A-4 CN21 1-4 CN22 D-8 D1 D2 D3 H-10 H-10 E-10 IC1 C-9 IC2 IC3 H-9 K-2 Q1 I-10 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q13 I-10 G-9 G-10 J-5 K-6 J-8 I-9 Q14 S1 S2

MB-325 SW-445, SW-446 FRAME FRAME SW-445, SW-446

FRAME

DXC-327 (J, UC) DXC-327P (EK)

MB-325 BOARD

SW-445 BOARD SW-446 BOARD

CN101
REMOTE
. (FEMALE)
-WIRING SIDE-CHIO2

VF

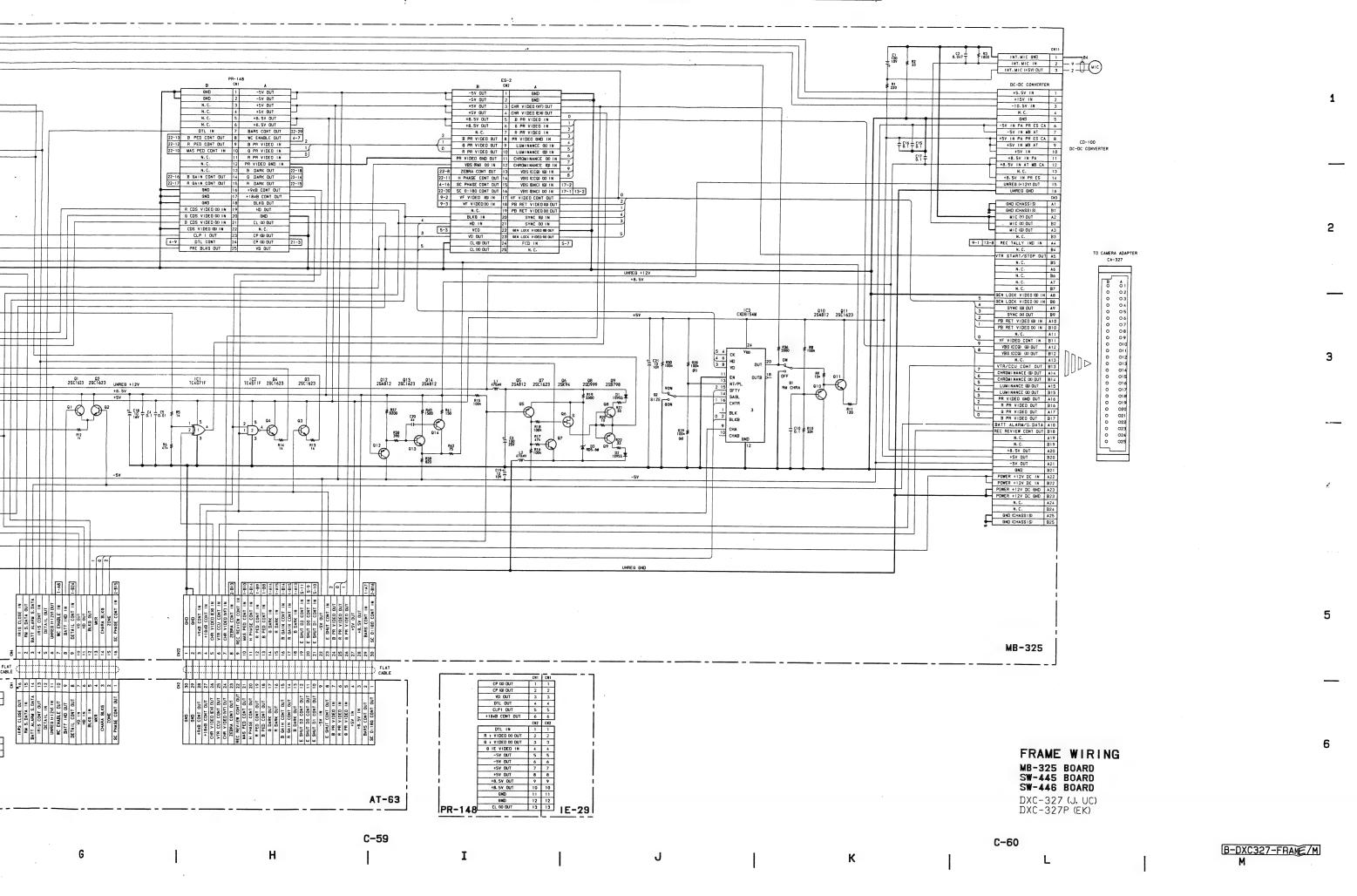
VFEMALE)

-WIRING SIDE-CM103 LENS -WIRING SIDE PA-107 (B) E SHUT CONT IN
E SHUT D2 CONT IN
E SHUT D1 CONT IN
E SHUT D0 CONT IN
VCO CONT IN CP (X) DUT CP (G) DUT CL (X) DUT CL (G) DUT BC-22 -----TG-72 46. YI W

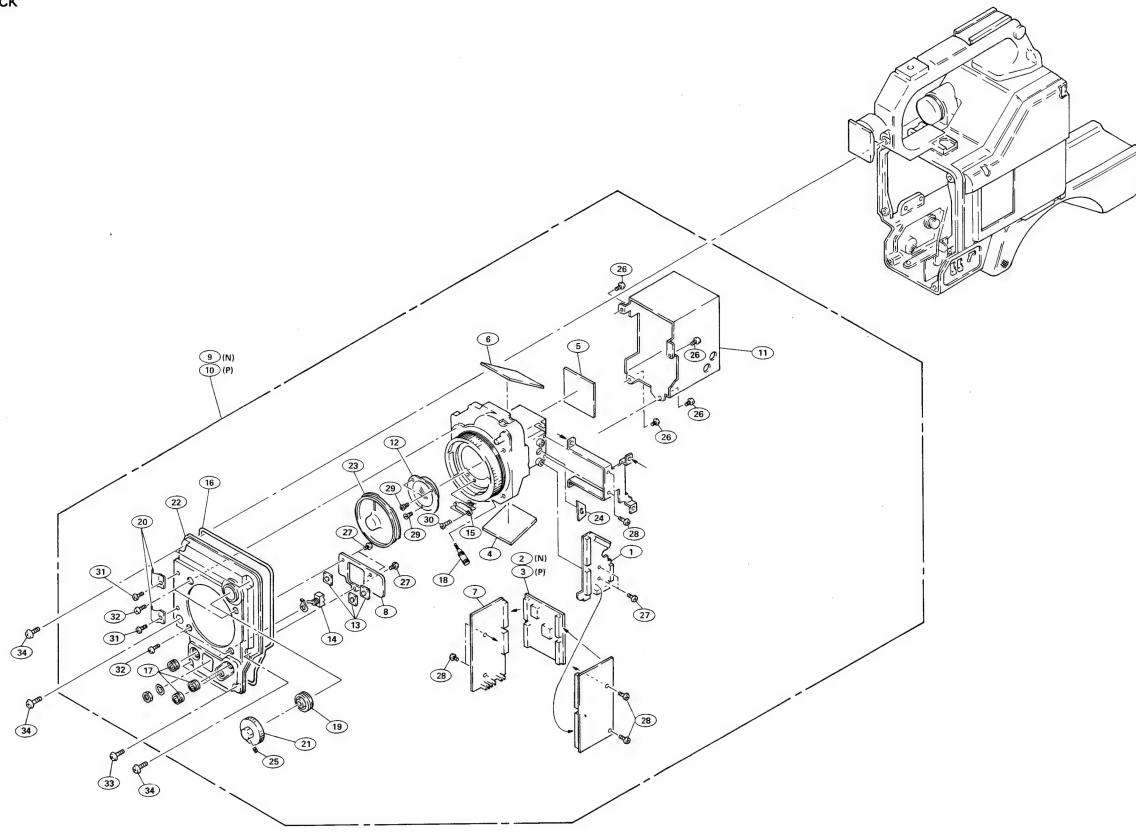
E. SHUT DC CONT IN

E. SHUT DI CONT IN

W. Y. W. PA-106 (R) 25C1623 2SC1623 \*\*\* | X | S92 | 14 | X | S92 | 14 | X | S93 | + C7 + C8 T 100 T 100 T 25V T 25V 6 SHD (X) OUT 8 SHD (8) OUT SHP OUT SHD = OUT B SHD (X) OUT B SHD (G) OUT SHP OUT AUTO W/B BAL UP ON H sı # 47x # 18x # 18x # 184 SW-445 SW-446 C-57 C-58 Ε G

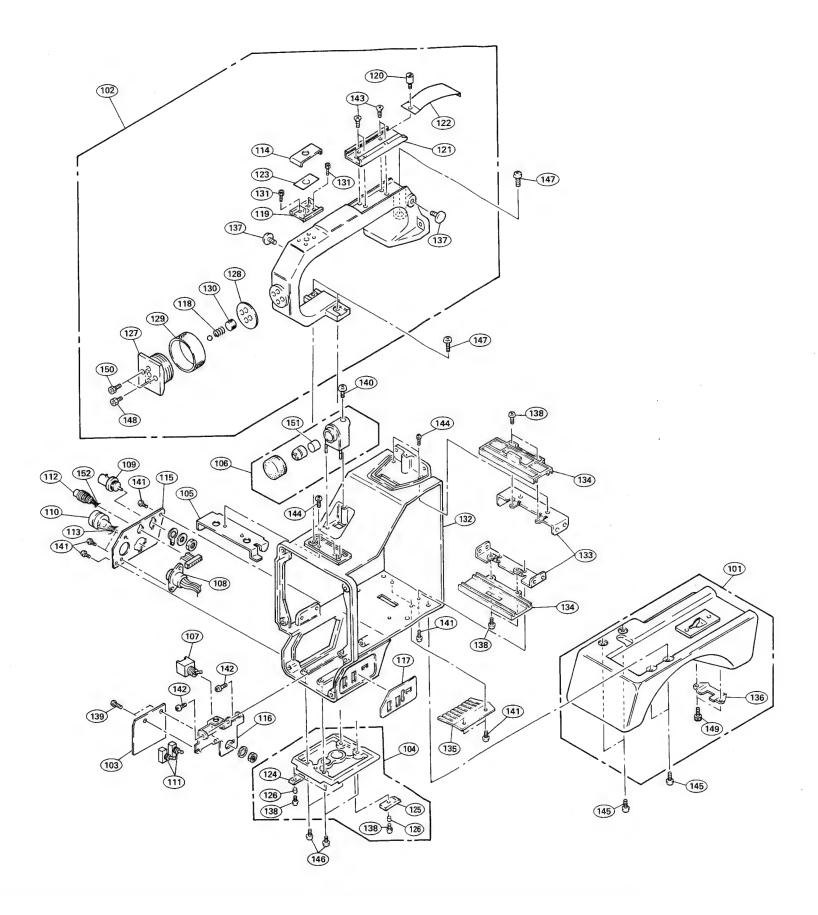






DXC-327 (UC) DXC-327P (EK)

# CHASSIS (1) BLOCK



```
SP Description
                  Part No.
No.
          ⚠ 1-546-078-11 s CRT/DY ASSY
1-589-128-11 o MAIN BOARD (for DXF-501)
1-589-128-21 o MAIN BOARD (for DXF-501CE)
1-589-129-11 o SW BOARD (for DXF-501)
1-589-129-21 o SW BOARD (for DXF-501CE)
                                                                                                                                                                          9-994-826-01 o STOPPER, PWB
                                                                                                                                                                         9-994-827-01 o COLLER
9-997-916-01 o MIRROR
                                                                                                                                                        56
57
58
59
   3
                                                                                                                                                                          9-997-917-01 o SPACER
                                                                                                                                                                          9-997-918-01 o RING, LOCK
   5
                   2-277-453-00 s KNOB, CONTROL
2-277-456-00 s COLLER, STOPPER
2-277-457-00 s KNOB, STOPPER
2-277-466-01 s SPRING, COMPRESSION
2-277-468-01 o PLATE, ORNAMENTAL, CAMERA, SHOE
                                                                                                                                                                         9-997-919-01 o HOLDER A, LENS
9-997-920-01 o HOLDER B, LENS
9-997-921-01 o RING, ADJUSTMENT
9-997-922-01 o LID
                                                                                                                                                        61
62
   89
                                                                                                                                                        63
64
                                                                                                                                                                           9-997-923-01 s EYECUP
 10
                                                                                                                                                                          9-997-924-01 o RING, RUBBER
9-997-925-01 o BALL, STEEL
3-680-417-01 s LUPE B, VF
9-998-810-01 o CASE, TOP
1-230-075-00 s RES, VAR, METAL 2K "CONTR" "BRIGHT"
                   2-381-461-02 s PIN, BLIND
2-381-462-01 s PIN
2-381-468-01 s PIN, STOPPER
2-381-472-02 o STOPPER
2-832-007-00 s BUSHING (K), INSULATING
                                                                                                                                                         66
 12
                                                                                                                                                         67
 13
                                                                                                                                                         68
  14
                                                                                                                                                         69
  16
                    3-657-700-00 s BRACKET, ACCESSORY
3-672-213-01 o SHEET, ADHESIVE
3-680-604-01 o PLATE, BLIND
3-680-605-00 o CAP, SLIDE
3-688-709-01 s NUT, PLATE, SHOE
                                                                                                                                                                          1-570-845-11 s SWITCH, SLIDE
"TALLY ON/OFF" "PEAKING ON/OFF"
                                                                                                                                                         70
  18
19
                                                                                                                                                                           9-994-802-01 s DIODE SLH-56VT
                                                                                                                                                         71
  20
  21
                    3-703-037-00 s INSULATOR, TO-220
7-621-255-25 s SCREW +P2X4
7-621-255-52 s SCREW +P2X8
7-621-773-95 s SCREW +B2.6X6
7-621-775-00 s SCREW +B2.6X3
  24
  25
26
27
                    7-624-102-04 s STOP RING, TYPE E
7-627-552-58 s SCREW, PRECISION +P1.7X5
7-627-553-28 s SCREW, PRECISION +P2X2.5
7-627-553-68 s SCREW, PRECISION +P2X6
7-682-248-09 s SCREW +K3X8
  29
31
32
   34
                     7-682-550-09 s SCREW +B3X12
7-685-131-19 s SCREW +BTP2.6X4
7-688-008-04 s WASHER
8-729-385-82 s TRANSISTOR 2SB858
9-994-797-01 s CABLE, VF
   35
36
   37
38
                     9-994-811-01 o SPRING, P. 9-994-812-01 o INSULATOR
                                                                               PLATE
   41
                     9-994-813-01 o LABEL, SWITCH
9-994-814-01 o CASE, BOTTOM
9-994-815-01 o HOLDER T, OUTSIDE
   43
   44
                     9-994-816-01 o PLATE, NUT
                     9-994-818-01 o HOLDER B, OUTSIDE
9-994-819-01 o PIN, LOCK
9-994-820-01 o RING, SLIDE
    46
    49
                     9-994-821-01 o NUT, PLATE, CASE
9-994-822-01 o GUIDE, VF SLIDE
9-994-823-01 o LABEL, SLIDE
   51
52
53
54
                     9-994-824-01 o STOPPER
9-994-825-01 o RUBBER, STOPPER
```

```
Ref. No. Part No.
                       SP Description
                                                          Ref. No. Part No.
                                                                                 SP Description
RESISTOR, CHIP
                                                          1-216-083-00
                                                                          S
                                                                            RES, CHIP
                                                          1-216-085-00
                                                                             RES, CHIP
                                                                                         33k
                                                                         S
                                                          1-216-087-00
                                                                             RES, CHIP
                                                                                         39k
1/10W
                                                                          S
0 - 3.3M (E12) +-5% 1/10W
                                                                             RES, CHIP
                                                          1-216-089-00
                                                                                         47k
                                                                          S
                                                          1-216-091-00
                                                                          S
                                                                             RES, CHIP
                                                                                         56k
                                    5% 1/10W
1-216-295-00
                   RES, CHIP
                              0
                               2.2
1-216-298-00
1-216-302-00
                                    5% 1/10W
                                                          1-216-093-00
                                                                             RES, CHIP
                                                                                         68k
                   RES, CHIP
                                                                          S
               S
                                                                                         82k 5% 1/10W
100k 5% 1/10W
120k 5% 1/10W
                                    5% 1/10W
                                                          1-216-095-00
                   RES, CHIP
                                                                             RES, CHIP
               S
                                                                          S
                                                                             RES, CHIP
                   RES, CHIP
                               3.3
                                    5% 1/10W
                                                          1-216-097-00
1-216-304-00
               S
                                                                          S
                   RES, CHIP
                               3.9
                                                          1-216-099-00
                                                                             RES, CHIP
                                    5% 1/10W
1-216-306-00
               s
                                                                          S
                                                          1-216-101-00
                                                                             RES, CHIP
                                                                                         150k 5% 1/10W
                                                                          S
1-216-308-00
               S
                   RES, CHIP
                               4.7
                                     5% 1/10W
1-216-309-00
                   RES, CHIP
                               5.6
                                     5% 1/10W
                                                          1-216-103-00
                                                                                         180k 5% 1/10W
               S
                                                                          S
                                                                             RES, CHIP
                                                                                         220k 5% 1/10W
1-216-311-00
                   RES, CHIP
                                     5% 1/10W
                                                          1-216-105-00
                                                                             RES, CHIP
                               6.8
               S
                                                                          S
                                                                                        270k 5% 1/10W
330k 5% 1/10W
390k 5% 1/10W
                   RES, CHIP
                               8.2
                                    5% 1/10W
                                                          1-216-107-00
1-216-313-00
                                                                             RES, CHIP
               S
                                                                          S
                   RES, CHIP
                                     5% 1/10W
                                                          1-216-109-00
                                                                             RES, CHIP
                               10
1-216-001-00
                                                                          S
                                                          1-216-111-00
                                                                             RES, CHIP
                                                                          S
1-216-003-00
                   RES, CHIP
                               12
                                     5% 1/10W
                   RES, CHIP
                               15
1-216-005-00
                                     5% 1/10W
                                                          1-216-113-00
                                                                             RES, CHIP
                                                                                         470k 5% 1/10W
               S
1-216-007-00
                   RES, CHIP
                               18
                                     5% 1/10W
                                                          1-216-115-00
                                                                             RES, CHIP
                                                                                         560k 5% 1/10W
               S
                                                                          S
                               22
                                     5% 1/10W
                                                          1-216-117-00
                                                                                         680k 5% 1/10W
1-216-009-00
                   RES, CHIP
                                                                          S
                                                                             RES, CHIP
               S
                                                          1-216-119-00
                                                                             RES, CHIP
                   RES, CHIP
                               27
                                     5% 1/10W
                                                                                         820k 5% 1/10W
1-216-011-00
                                                                          S
                                                          1-216-121-00
                                                                             RES, CHIP
                                                                                         1.0M 5% 1/10W
                                     5% 1/10W
1-216-013-00
                   RES, CHIP
1-216-015-00
                   RES, CHIP
                               39
                                     5% 1/10W
                                                          1-216-123-00
                                                                          S
                                                                             RES, CHIP
                                                                                         1.2M 5% 1/10W
1-216-017-00
                   RES, CHIP
                               47
                                     5% 1/10W
                                                          1-216-125-00
                                                                             RES, CHIP
                                                                                         1.5M 5% 1/10W
               S
                                                                          S
1-216-019-00
                   RES, CHIP
                               56
                                     5% 1/10W
                                                          1-216-127-00
                                                                          S
                                                                             RES, CHIP
                                                                                         1.8M 5% 1/10W
               S
                                                           1-216-129-00
                                                                             RES, CHIP
RES, CHIP
                   RES, CHIP
                               68
                                     5% 1/10W
                                                                                         2.2M 5% 1/10W
1-216-021-00
                                                                          S
                                                          1-216-131-00
                                                                                         2.7M 5% 1/10W
                                                                          S
                               82
                                     5% 1/10W
1-216-023-00
                   RES, CHIP
                S
                   RES, CHIP
                                     5% 1/10W
                               100
                                                          1-216-133-00 s RES, CHIP 3.3M 5% 1/10W
1-216-025-00
                S
                   RES, CHIP
1-216-027-00
               S
                               120
                                     5% 1/10W
1-216-029-00
                   RES, CHIP
                               150
                                     5% 1/10W
                S
                   RES, CHIP
                               180
                                     5% 1/10W
1-216-031-00
                               220
270
                   RES, CHIP
                                     5% 1/10W
1-216-033-00
                S
                   RES, CHIP
                                     5% 1/10W
1-216-035-00
               S
                   RES, CHIP
                               330
                                     5% 1/10W
1-216-037-00
                S
1-216-039-00
                   RES, CHIP
                               390
                                     5% 1/10W
                s
                   RES, CHIP
                               470
                                     5% 1/10W
1-216-041-00
1-216-043-00
                   RES, CHIP
                               560
                                     5% 1/10W
                S
1-216-045-00
                   RES, CHIP
                               680
                                     5% 1/10W
                S
                   RES, CHIP
                                    5% 1/10W
1-216-047-00
                               820
                S
                                     5% 1/10W
1-216-049-00
                   RES, CHIP
                S
                               1k
                               1.2k 5% 1/10W
1-216-051-00
                   RES, CHIP
1-216-053-00
                   RES, CHIP
                               1.5k 5% 1/10W
                S
                               1.8k 5% 1/10W
2.2k 5% 1/10W
                   RES, CHIP
1-216-055-00
                S
1-216-057-00
                   RES, CHIP
                S
1-216-059-00
                   RES, CHIP
                               2.7k 5% 1/10W
                S
                   RES, CHIP
                               3.3k 5% 1/10W
1-216-061-00
                S
                   RES, CHIP
                               3.9k 5% 1/10W
1-216-063-00
                s
1-216-065-00
                   RES, CHIP
                               4.7k 5% 1/10W
                S
                               5.6k 5% 1/10W
1-216-067-00
                   RES, CHIP
                S
1-216-069-00
                   RES, CHIP
                               6.8k 5% 1/10W
                S
                   RES, CHIP
                               8.2k 5% 1/10W
1-216-071-00
                   RES, CHIP
                               10k
1 - 216 - 073 - 00
                S
1-216-075-00
                   RES, CHIP
                               12k
                                     5% 1/10W
                S
1-216-077-00
                   RES, CHIP
                               15k
                                     5% 1/10W
                S
                   RES, CHIP
                               18k
                                    5% 1/10W
1-216-079-00
                S
```

RES, CHIP

22k

5% 1/10W

s

1-216-081-00

5% 1/10W

5% 1/10W

5% 1/10W

5% 1/10W

5% 1/10W

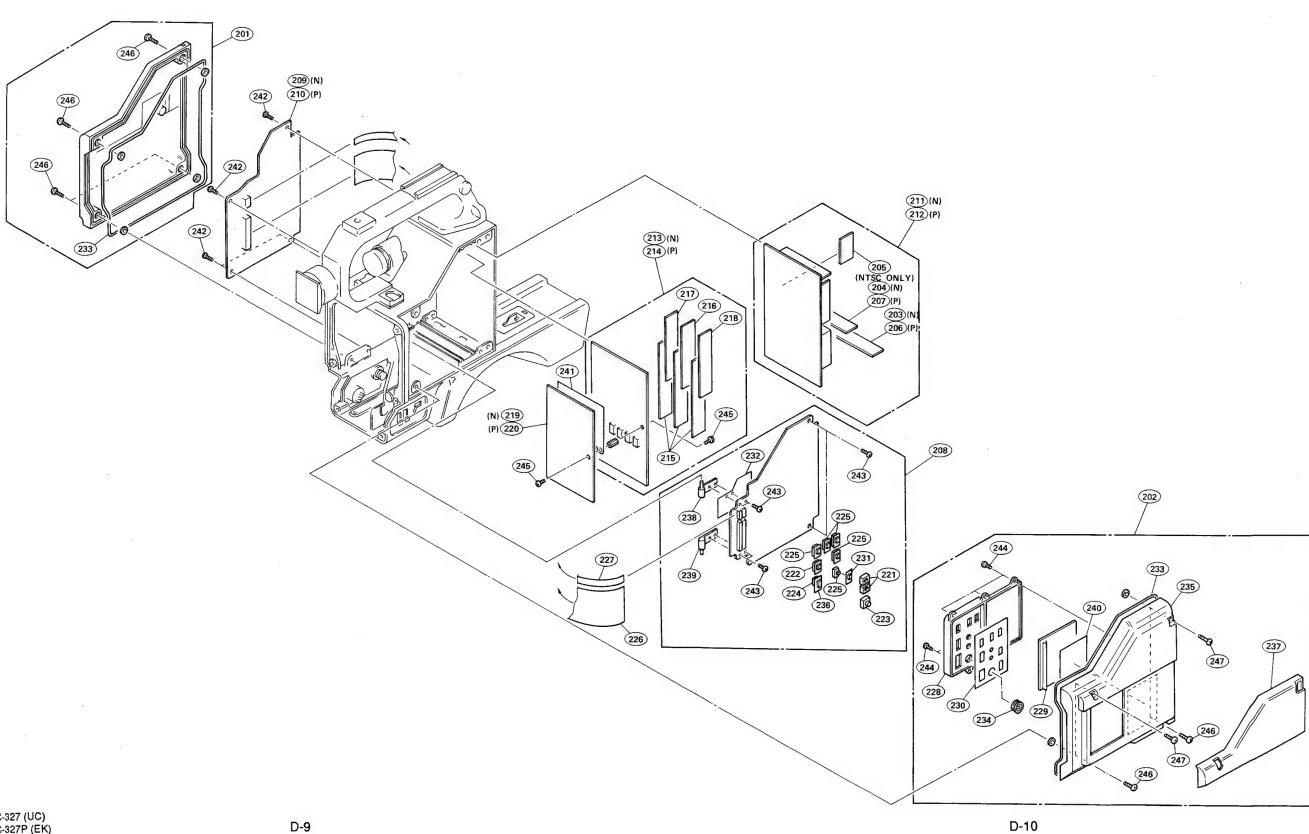
5% 1/10W

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Ref. No. Part No. SP Description
                                                                                              SP Description
                                                                   Ref. No. Part No.
                                                                               1-459-823-11 s COIL, HORIZONTAL LINEARITY
                                                                   HLC
MAIN BOARD
           1-589-128-11 o MOUNTED CIRCUIT BOARD
                                                       "MAIN"
           9-994-794-01 s CRT
                                                                   IC2
                                                                               8-759-300-28 s HA11423MP: HITACHI
                                                                   IC3
                                                                               8-759-100-94 s uPC358G2:
           9-994-781-01 s TANTALUM 47 16V
C20
           1-163-038-11 s CHIP CERAMIC 0.1 25V
C21
C22
           1-163-038-11 s CHIP CERAMIC 0.1 25V
           1-126-157-11 s ELECT 10 20% 16V
1-124-464-11 s ELECT 0.22 20% 50V
                                                                   Q10
                                                                               8-729-881-23 s 2SC2812-L7
C23
                                                                               8-729-881-23 s 2SC2812-L7
                                                                   011
C24
                                                                               8-729-100-76 s 2SA812
                                                                   012
                                                                               8-729-881-23 s 2SC2812-L7
           9-994-780-01 s P-P CONDENCER 0.0047
                                                                   Q20
C26
           1-124-438-11 s ELECT 1 20% 50V
1-124-584-11 s ELECT 100 20% 10V
1-131-347-00 s TANTALUM 1 10% 35V
C28
C29
                                                                   Q21
                                                                               9-994-771-01 s 2SD1220
                                                                               8-729-119-00 s 2SK612
                                                                   022
C30
                                                                   023
                                                                               8-729-162-43 s 2SB624-BV3
            1-126-157-11 s ELECT 10 20% 16V
C31
           1-163-133-11 s CHIP CERAMIC 470PF 5% 50V
C32
           1-126-157-11 s ELECT 10 20% 16V
C33
C34
           1-126-162-11 s ELECT 3.3 20% 50V
           1-163-088-11 s CHIP CERAMIC 0.1 25V
1-124-455-00 s ELECT 100 20% 16V
                                                                            ⚠ 1-216-109-11 s CHIP 330K 5% 1/10W
♠ 1-216-083-11 s CHIP 27K 5% 1/10W
                                                                   R43
C35
                                                                    R44
C36
                                                                            ▲ 1-216-057-11 s CHIP 2.2K 5% 1/10W
▲ 1-216-057-11 s CHIP 2.2K 5% 1/10W
                                                                   R60
                                                                    R61
           9-994-777-01 s ELECT 220 6.3V
 C37
                                                                             ▲ 9-994-785-01 s 10M
▲ 9-994-786-01 s 91K
            1-130-481-11 s CAP, PE TEREPHTHALATE
C38
                                                                   R66
                                             0.0068 5% 50V
                                                                   R67
           1-163-088-11 s CHIP CERAMIC 0.1 25V
1-163-088-11 s CHIP CERAMIC 0.1 25V
 C40
                                                                    R69
                                                                             1-216-081-11 s CHIP 22K 5% 1/10W
C43
                                                                            ▲ 1-216-079-11 s CHIP 18K 5% 1/10W

▲ 1-216-081-11 s CHIP 22K 5% 1/10W
            9-994-782-01 s TANTALUM 47 16V
                                                                    R70
C44
                                                                    R72
                                                                             A 1-216-081-11 s CHIP 22K 5% 1/10W
            1-126-162-11 s ELECT 3.3 20% 50V
                                                                    R73
 C46
 C48
            9-994-783-01 s 0.0056 100V
            9-994-778-01 s ELECT 22 63V
9-994-784-01 s 0.0015 1K
 C49
 C50
            1-163-088-11 s CHIP CERAMIC 0.1 25V
 C51
                                                                   RV10
                                                                                9-994-787-01 s 5K
                                                                                9-994-788-01 s 5K
9-994-789-01 s 200
            9-994-779-01 s ELECT 56 16V
                                                                   RV11
 C52
           1-163-088-11 s CHIP CERAMIC 0.1 25V
1-163-088-11 s CHIP CERAMIC 0.1 25V
                                                                   RV12
 C53
                                                                                9-994-790-01 s 500
 C54
                                                                    RV13
            1-163-088-11 s CHIP CERAMIC 0.1 25V
 C55
                                                                   RV20
                                                                             ⚠ 1-228-459-11 s METAL 10K
                                                                   RV21
                                                                             ⚠ 1-228-458-11 s METAL 5K
           9-994-791-01 o RECEPTACLE, 7P
9-994-792-01 o RECEPTACLE, 3P
 CN4
 CN7
            9-994-793-01 o RECEPTACLE, 2P
                                                                            ▲ 1-439-419-11 s FBT
                                                                   T1
            8-719-914-42 s DA204K
 D2
           8-719-911-19 s 1SS119
9-994-773-01 s ERA15-06
 D4
 D5
            9-994-774-01 s 1SS136
 D6
            8-719-948-45 s ERA22-08
 D7
```

Ref. No	. Part No. SP Description	Ref. No.	Part No. SP Description						
SW BOAR	SW BOARD								
	1-589-129-11 o MOUNTED CIRCUIT BOARD "SW" (J.UC)		39-994-799-01 s CHIP 24K 5% 1/10W 31-216-064-11 s CHIP 4.3K 5% 1/10W						
	1-589-129-21 o MOUNTED CIRCUIT BOARD "SW" (EK)								
	104 420 11 - FLECT 1 20W FOV	RV1 A	1-228-473-11 s METAL 5K						
C1 C3 C4 C5	1-124-438-11 s ELECT 1 20% 50V 1-124-584-11 s ELECT 100 20% 10V 1-124-584-11 s ELECT 100 20% 10V 1-126-154-11 s ELECT 47 20% 6.3V	RV2 RV3 RV4	1-230-075-11 s CARBON 2K "CONTR" 1-228-475-11 s METAL 20K 1-226-368-11 s CARBON 10K "BRIGHT"						
C6	1-124-438-11 s ELECT 1 20% 50V								
C7 C8 C9 C10	1-124-462-11 s ELECT 10 20% 16V 1-163-113-11 s CHIP CERAMIC 68PF 5% 50V 1-163-105-11 s CHIP CERAMIC 33PF 5% 50V 1-163-015-11 s CHIP CERAMIC 0.0033 10%	\$1 \$2	1-570-845-11 s SLIDE "PEAKING ON/OFF" 1-570-845-11 s SLIDE "TALLY ON/OFF"						
C11	1-163-038-11 s CHIP CERAMIC 0.1 25V								
		LED BOAR	n .						
CN1	9-994-803-01 o 8P	FED DOWN							
CN2 CN3	9-994-804-01 o 3P 9-994-805-01 o 5P		1-589-127-11 o MAUNTED CIRCUIT BOARD "LED"						
CN4	9-994-806-01 o 75 9-994-807-01 o 2P								
CN5	9-994-807-01 0 28		9-994-810-01 o LED PWB						
			9-994-810-01 0 LED PWB						
CP	9-994-808-01 s PROTECTORS ICP-N10(EK)								
		CN9	9-994-809-01 o RECEPTACLE, 5P						
D1	8-719-914-43 s DAN202K								
		LED2	8-719-800-25 s TLR109A						
		LED3 LED4	8-719-800-25 s TLR109A 8-719-800-25 s TLR109A						
I C1	⚠ 8-759-630-27 s M5236ML: MITSUBISHI	LED5	8-719-800-19 s TL0102A						
L1 L2	9-994-800-01 s 100µH 9-994-801-01 s 47µH	FRAME							
22	3 331 332 32 3								
. ==1	9-994-802-01 s SLH-56VT	<b>Q</b> 1	8-729-315-63 s 2SB856						
LED1	9-994-002-01 \$ 3EN 3001	4-	0 723 310 03 3 233500						
	0.700.001.02 - 2562012.17								
Q2 <b>Q</b> 3	8-729-881-23 s 2SC2812-L7 8-729-881-23 s 2SC2812-L7	DAGKING	MATERIAL AND ACCESSORIES						
Q4 Q5	8-729-881-23 s 2SC2812-L7 1-806-828-11 s 2SC2814	PACKING	MATERIAL AND ACCESSORIES						
$\mathbf{\tilde{Q}}_{6}$	9-994-796-01 s 2SC3722K		3-166-610-01 o CARTON, INDIVIDUALU€) 3-166-612-01 o CARTON, INDIVIDUALE K)						
Q7 Q8	9-994-796-01 s 2SC3722K 8-729-881-23 s 2SC2812-L7		3-699-152-01 o CUSHION, UPPER 3-699-153-01 o CUSHION, LOWER 3-701-627-01 o BAG, POLY						

# CHASSIS (2) BLOCK



#### PACKING MATERIAL AND ACCESSORIES

#### DXC-327H/327PH

#### Part. No. SP Description

3-166-614-01 o CARTON, INDIVIDUAL DXC-327H(UC)
3-166-615-01 o CARTON, INDIVIDUAL DXC-327H(EK)
3-699-154-01 o CUSHION (LOWER)
3-699-157-01 o CUSHION (UPPER)
3-752-391-11 s MANUAL, INSTRUCTION (UC, EK)

3-759-391-31 s MANUAL, INSTRUCTION (EK)
3-759-391-41 s MANUAL, INSTRUCTION (EK)
3-759-391-51 s MANUAL, INSTRUCTION (EK)
3-752-391-61 s MANUAL, INSTRUCTION (EK)
3-764-889-01 o CHART, ADJUSTMENT

# DXC-327L/327PL

#### Part. No. SP Description

3-166-618-01 o CARTON, INDIVIDUAL DXC-327L(UC)
3-166-619-01 o CARTON, INDIVIDUAL DXC-327PL(EK)
3-701-630-01 o BAG, POLY
3-752-391-11 s MANUAL, INSTRUCTION DXC-327L(UC)
3-752-391-31 s MANUAL, INSTRUCTION DXC-327L(UC)
3-752-391-41 s MANUAL, INSTRUCTION DXC-327PL(EK)
3-752-391-51 s MANUAL, INSTRUCTION DXC-327PL(EK)
3-752-391-61 s MANUAL, INSTRUCTION DXC-327PL(EK)
3-764-889-01 o CHART, ADJUSTMENT

# DXC-327K/327PK

#### Part. No. SP Description

3-166-616-01 o CARTON, INDIVIDUAL DXC-327K(UC)
3-166-617-01 o CARTON, INDIVIDUAL DXC-327PK(EK)
3-701-630-01 o BAG, POLY
3-752-391-11 s MANUAL, INSTRUCTION DXC-327K(UC)/DXC-327PK(EK)
3-752-391-31 s MANUAL, INSTRUCTION DXC-327PK(EK)
3-752-391-51 s MANUAL, INSTRUCTION DXC-327PK(EK)
3-752-391-51 s MANUAL, INSTRUCTION DXC-327PK(EK)
3-752-391-61 s MANUAL, INSTRUCTION DXC-327PK(EK)
3-752-391-61 s MANUAL, INSTRUCTION DXC-327PK(EK)
3-752-391-61 s MANUAL, INSTRUCTION DXC-327PK(EK)
3-764-889-01 o CHART, ADJUSTMENT
7-682-560-09 s SCREW +B4x6
7-682-563-09 s SCREW +B4x12

# 1.5INCH ELECTRONIC VIEWFINDER



#### **SPECIFICATIONS**

Picture tube Indicators 1.5-inch monochrome REC/TALLY indicator

BATT indicator SHUTTER indicator

**GAIN UP indicator** 

Resolution

400 lines

Power requirements

12 V DC

Power consumption

2.3 W

Weight

Approx. 500 g (1 lb 2 oz)

Dimensions

Approx. 182 × 68 × 205 mm (w/h/d)

Supplied accessory

Operating Instructions (1)

Design and specifications are subject to change without notice.

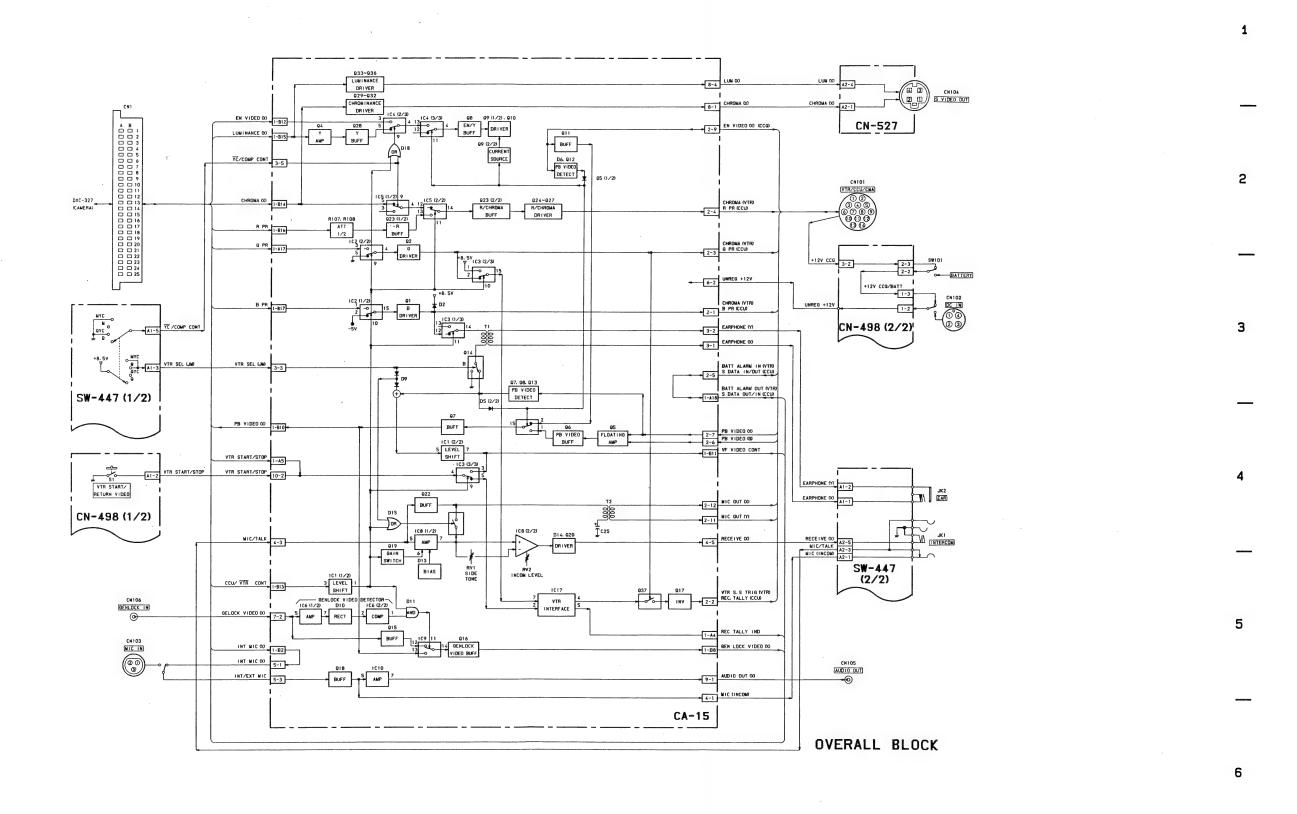


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# SECTION A BLOCK DIAGRAM

#### OVERALL BLOCK



CA-327 (J, UC) CA-327P (EK)

A-1

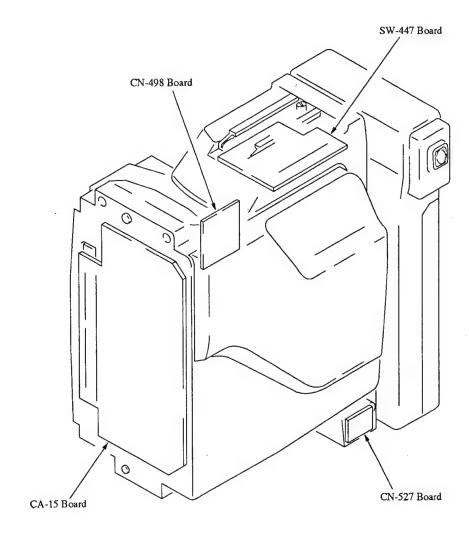
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B-CA327-OVERAL

SECTION C SCHEMATIC DIAGRAMS AND BOARD ILLUSTRATIONS



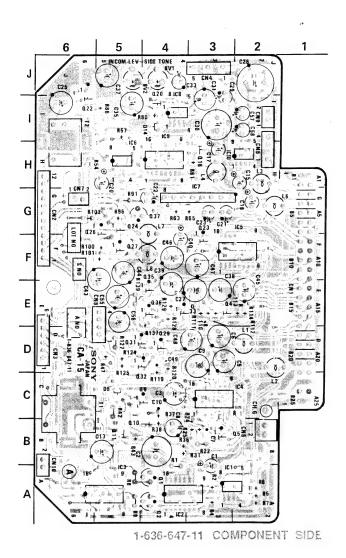
CN-498, CN-527 SW-447 CA-15

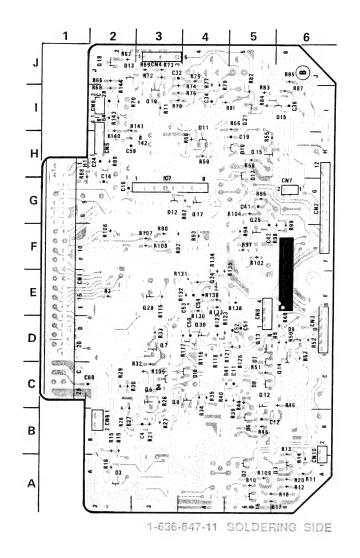
CA-15 (1-636-647-11)

CN

# CA-15 BOARD

CA-15	(1-636-647-11)		
CN1 CN2 CN3 CN4 CN5 CN6 CN7 CN8 CN9 CN10	E-1 G-6 D-6 J-3 H-2 B-2 G-6 E-5 I-2 A-6	Q27 Q28 Q29 Q30 Q31 Q32 Q33 Q34 Q35 Q36 Q37	F-5 E-3 D-4 D-5 C-4 E-3 E-4 F-4 G-4
D2 D3 D4 D5 D6 D7 D8 D9 D10 D11 D12 D13 D14 D15 D16 D17 D18	A-5 A-2 C-3 C-5 B-5 D-5 C-5 D-6 H-5 I-4 G-3 J-2 I-4 I-6 A-5 H-5 C-4	RV1 RV2 T1 T2	J-4 J-4 C-5 I-6
IC1 IC2 IC3 IC4 IC5 IC6 IC7 IC8 IC9 IC10	A-3 A-4 A-5 C-2 G-2 H-5 G-3 J-4 I-4 H-3		
Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q13 Q14 Q15 Q16 Q17 Q18 Q19 Q20 Q21 Q22 Q23 Q24 Q25 Q26	A-4 A-6 E-3 B-2 C-3 C-3 C-4 B-5 C-5 B-5 C-5 H-3 H-3 H-6 G-5 G-6 G-6 G-6		

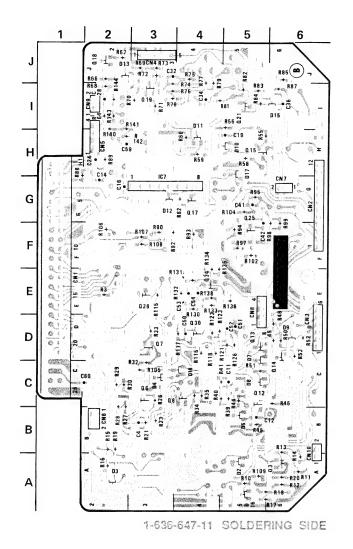




UA-10	(1-000-047-11)			
CN1 CN2 CN3 CN4 CN5 CN6 CN7 CN8 CN9 CN10	E-1 G-6 D-6 J-3 H-2 B-2 G-6 E-5 I-2 A-6	Q27 Q28 Q29 Q30 Q31 Q32 Q33 Q34 Q35 Q36 Q37	F-5 E-3 D-4 D-5 C-4 E-3 E-4 F-4 G-4	
02 03 04 05	A-5 A-2 C-3 C-5	RV1 RV2	J-4 J-4	1.4
06 07 08 09 010	B-5 D-5 C-5 D-6 H-5	T1 T2	C-5 I-6	
011 012 013 014 015 016 017	I-4 G-3 J-2 I-4 I-6 A-5 H-5 C-4			CN
01 02 03 04 05 06 07 08 09	A-3 A-4 A-5 C-2 G-3 J-4 I-4			4 <b>-63</b> 0
11 122 133 144 155 166 177 188 199 1110 1111 1111 1111 1111 1111 1	A -4 A -6 E -3 B -2 C -3 C -3 C -4 B -5 D -5 5 C -5 5 C -6 H -3 J -4 I -6 G -3 G -5 G -5 G -5 G -5 G -5 G -5 G -5 G -5			SI

#### SW-447 CA-15 CA-15 SW-447

### CN-498 BOARD



CA-15 (1-636-647-11)				·
CN1 CN2 CN3 CN4 CN5 CN6 CN7 CN8 CN9 CN10	E-1 G-6 D-6 J-3 H-2 B-2 G-6 E-5 I-2 A-6	Q27 Q28 Q29 Q30 Q31 Q32 Q33 Q34 Q35 Q36 Q37	F-5 E-3 D-4 D-4 D-5 C-4 E-3 E-4 F-4 G-4	CN - 498 1 - 636 - 661 - 11  COT NO  LOT NO  A  SON  JAPA
D2 D3 D4 D5	A-5 A-2 C-3 C-5	RV1 RV2	J-4 J-4	1-636-661-11 COMPONENT
D6 D7 D8 D9 D10	B-5 D-5 C-5 D-6 H-5	T1 T2	C-5 I-6	
D11 D12 D13 D14 D15	I-4 G-3 J-2 I-4 I-6			CN-527 BOARD
D16 D17 D18	A-5 H-5 C-4			SONY

CN1 CN2 CN3 CN4 CN5 CN6 CN7 CN8 CN9

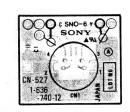
D2 D3 D4 D5 D6 D7 D8 D9 D10 D11 D12 D13 D14 D15 D16 D17 D18

IC1 IC2 IC3 IC4 IC5 IC6 IC7 IC8 IC9 IC10

Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q15 Q16 Q17 Q18 Q19 Q20 Q21 Q22 Q23 Q24 Q26 Q26 Q26 Q26 Q26 Q27

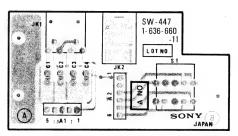
A-3 A-4 A-5 C-2 G-2 H-5 G-3 J-4 I-4 H-3

CN-527 BOARD



1-636-740-12 COMPONENT SIDE

### SW-447 BOARD



SIDE

1-636-660-11 COMPONENT SIDE



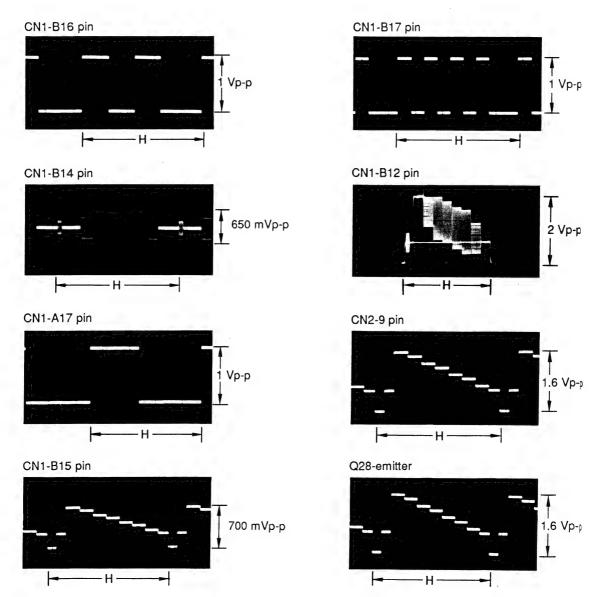
#### **CA-15 BOARD**

- NOTE:
  1. All voltage are DC, measured with a digital voltmeter.
- 2. All waveforms are taken and DC voltage is measured in condition below.
  - · Shoot the grayscale chart. Adjust lens iris so that a white level is 100 IRE on the waveform monitor.

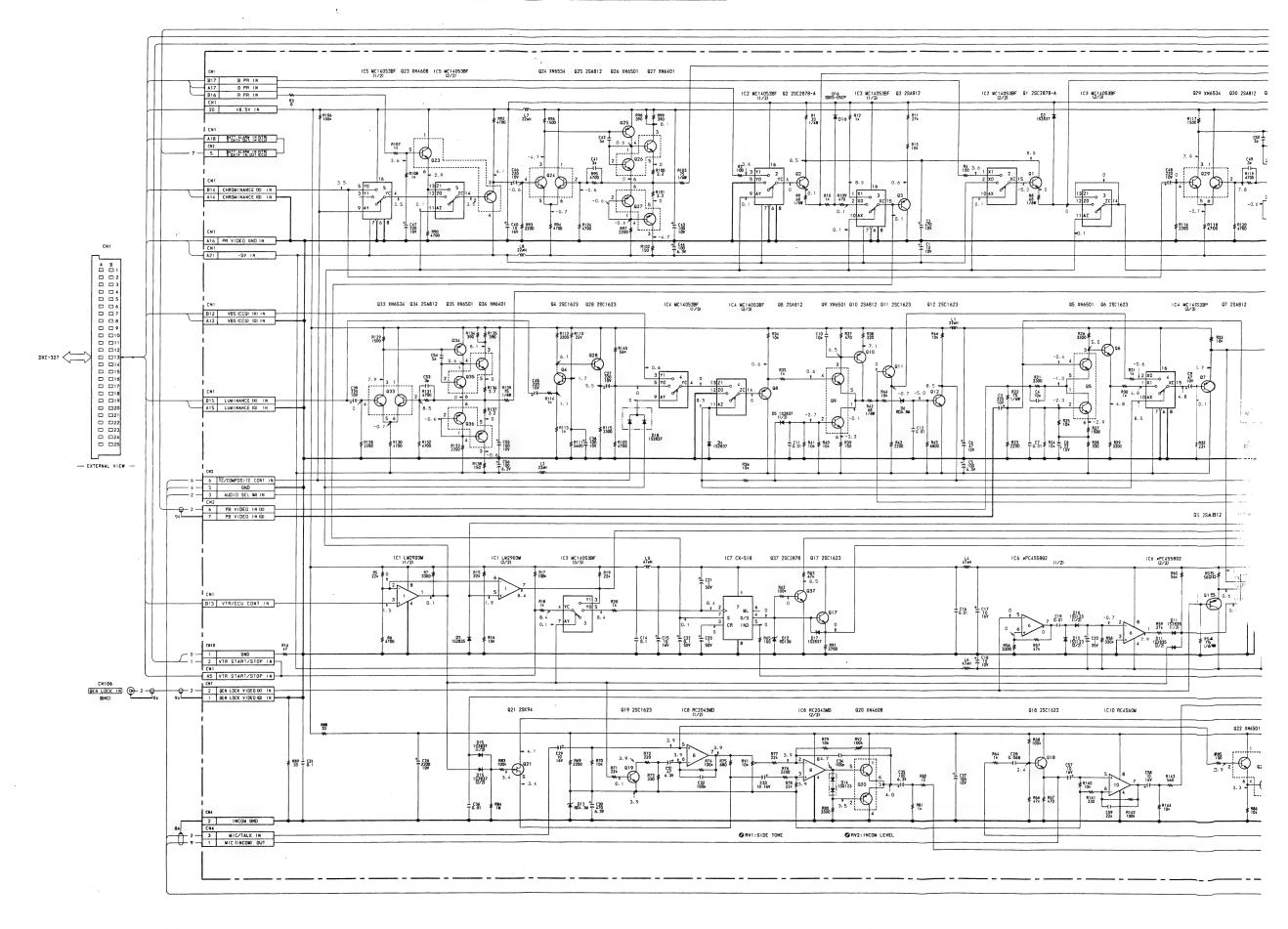
• GAIN : 0 dB • WHITE BAL : PRE • ABL : OFF

• SHUTTER : OFF • ZEBRA : OFF

• VF MARKER: OFF : 0° PHASE BARS : ON



CA-15 BOARD CN-498 BOARD CN-527 BOARD SW-447 BOARD



CA-327 (J, UC) CA-327P (EK)

C-9

1

С

D

.

1

C-10

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# SECTION D SPARE PARTS

#### PARTS INFORMATION

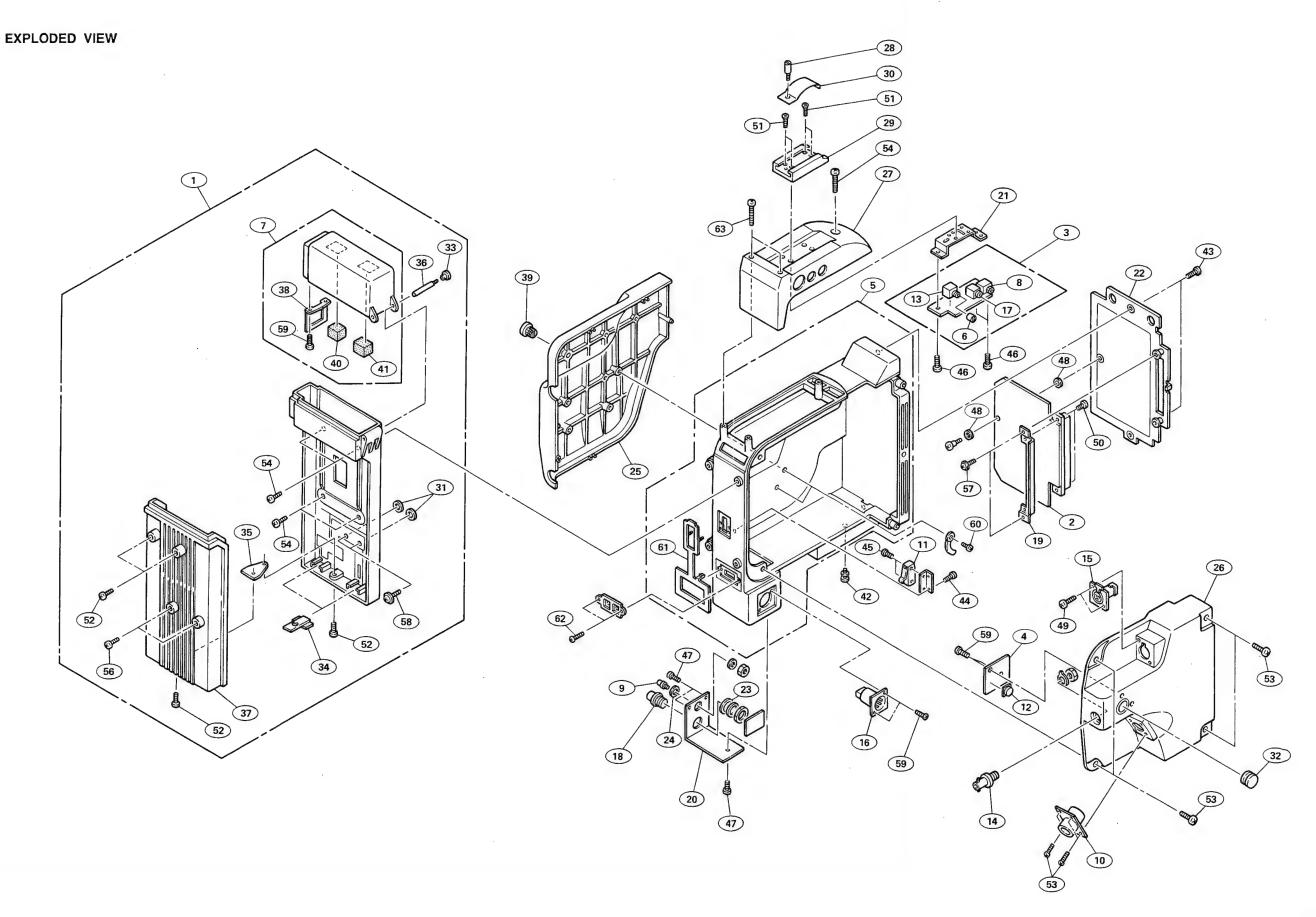
#### 1. Safety Related Component Warning

Components indentified by shading marked with  $\triangle$  on the schematic diagrams, exploded views and electrical spare parts list are critical to safe operation. Replace these components with Sony parts whose parts numbers appear as shown in this manual or in service manual supplements published by Sony.

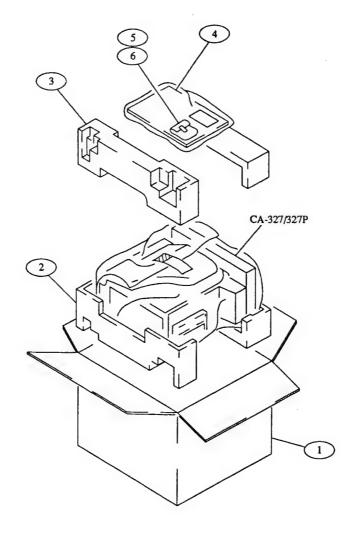
- 2. Replacement Parts supplied from Sony Parts Center will sometimes have different shape and outside view from the parts which actually in use. This is due to "accommodating the improved parts and/or engineering changes" or "standardization of genuine parts." This manual 's exploded view and electrical spare parts lists are indicating the parts numbers of "the standardized genuine parts at present." Regarding engineering parts and diagrams changes in our engineering department, refer to SONY service bulletins and service manual supplements.
- 3. The parts marked with "S" in the SP column of the exploded views and electrical spare parts list are normally required for routine service work. Orders for parts marked with "O" will be processed, but allow for additional delivery time.
- 4. Item with no parts number and/or no description are not stocked because they are seldom required for routine service.
- All capacitors are in micro farads unless otherwise specified.
   All inductors are in micro henries unless otherwise specified.
   All resistors are in ohms.

CA-327 (UC) CA-327P (EK)

D-1



```
SP Description
        Part No.
No.
                                                                              7-682-248-04 s SCREW +K 3X8
        A-6703-651-C s CASE ASSY, BATTERY
                                                                              7-682-546-09 s SCREW +B 3X5
        A-7515-231-A o MOUNTED CIRCUIT BOARD, CA-15
                                                                      52
                                                                              7-682-548-04 s SCREW +B 3X8
        A-7520-518-A o MOUNTED CIRCUIT BOARD, SW-447
                                                                      53
                                                                              7-682-548-09 s SCREW +B 3X8
        A-7520-519-A o MOUNTED CIRCUIT BOARD, CN-498
                                                                      54
        X-3165-587-1 o CHASSIS ASSY, CA
                                                                      55
                                                                              7-682-553-09 s SCREW +B 3X20
 5
                                                                              7-682-559-09 s SCREW +B 4X5
                                                                      56
        X-3664-208-0 s KNOB ASSY, FADE
        X-3717-701-3 o COVER ASSY, TOP, BATTERY
                                                                      57
                                                                              7-682-947-01 s SCREW +PSW 3X6
 7
        1-507-883-11 s JACK, SMALL TYPE, 4P "INTER COM"
1-507-918-00 o JACK, PIN 1P "AUDIO OUT"
1-508-942-12 s CONNECTOR, 14P MALE "VTR/CCU/CMA"
                                                                              7-682-948-01 s SCREW +PSW 3X8
                                                                      58
 8
                                                                              7-685-133-19 s SCREW +P 2.6X6 TYPE1
                                                                      59
 9
                                                                              7-685-649-79 s SCREW +BTP 3X14 TYPE2 N-S
                                                                      60
10
                                                                              3-168-435-01 o PACKING, DROP PROTECTION
        1-552-665-00 s SWITCH, MICRO
        1-553-739-21 s SWITCH, KEY BOARD
1-554-955-11 s SWITCH, ROTARY "VTR"
1-561-781-11 s CONNECTOR, BNC "GENLOCK IN"
                                                                      62
                                                                              7-621-772-30 s SCREW +B 2X6
12
                                                                              7-682-553-09 s SCREW +B 3X12
                                                                      63
13
14
         1-563-096-11 s CONNECTOR (WITH SW), 3P FEMALE
15
         1-564-603-11 s CONNECTOR (WITH DC SW), 4P MALE "DC IN"
16
         1-566-740-11 s JACK "EAR"
17
         1-568-699-11 s SOCKET, MINIATURE 4P "S VIDEO OUT" 3-166-318-01 o BRACKET, CONNECTOR
18
 19
         3-166-319-01 o PLATE (A), BOTTOM
20
         3-166-329-01 o BRACKET, PC BOARD
         3-166-330-01 o PANEL, CONNECTOR
3-167-448-01 o PLATE, GROUND
 22
 23
         3-167-449-01 o INSULATOR (1)
 24
         3-167-450-01 o PAD, SIDE
 25
         3-168-373-01 o COVER, SIDE
3-168-436-01 o COVER, TOP
 26
 27
         3-664-213-00 o SCREW, STOPPER
 28
         3-664-218-00 o SHOE
 29
         3-664-228-00 o PLATE, SPRING
 30
         3-669-596-00 s WASHER (2.3), STOPPER
 31
         3-672-221-02 s PACKING, CONTROL
 32
         3-703-075-00 s CAP 2, SHAFT
 33
         3-717-707-02 o CUSHION (2)
 34
         3-717-708-01 o RETAINER, CASE
 35
         3-717-709-01 o SHAFT, LID
3-718-040-01 o COVER (1), BATTERY CASE
 36
 37
         3-718-172-01 o RETAINER, HOOK
 38
 39
         3-725-907-01 s BUSHING, BLIND
         3-729-720-01 o CUSHION (LEFT)
 40
         3-729-721-01 o CUSHION (RIGHT)
 41
         3-744-355-01 o SHAFT, GUIDE
7-621-770-67 s SCREW +B 2.6X6
 42
 43
         7-621-772-18 s SCREW +B 2X4
         7-621-772-48 s SCREW +B 2X8
 45
         7-621-773-86 s SCREW +B 2.6X4
 46
         7-621-775-10 s SCREW +B 2.6X4
 47
         7-623-925-11 s WASHER 4.0, NYLONE
 48
          7-627-556-77 s SCREW, PRECISION +P2.6X6 TYPE 1
 49
          7-628-254-20 s SCREW +PS 2.6X8
```



#### RESISTOR, CHIP

#### Part No. SP Description

1-216-295-00 s RES, CHIP 0 5% 1/10W 1-216-298-00 s RES, CHIP 2.2 5% 1/10W 1-216-302-00 s RES, CHIP 2.7 5% 1/10W 1-216-304-11 s RES, CHIP 3.3 5% 1/10W 1-216-306-11 s RES, CHIP 3.9 5% 1/10W 1-216-308-00 s RES, CHIP 4.7 5% 1/10W 1-216-309-00 s RES, CHIP 5.6 5% 1/10W 1-216-311-00 s RES, CHIP 6.8 5% 1/10W 1-216-313-00 s RES, CHIP 8.2 5% 1/10W 1-216-001-00 s RES, CHIP 10 5% 1/10W 1-216-003-11 s RES, CHIP 12 5% 1/10W 1-216-005-00 s RES, CHIP 5% 1/10W 15 5% 1/10W 1-216-007-00 s RES, CHIP 18 1-216-009-00 s RES, CHIP 22 5% 1/10W 1-216-011-00 s RES, CHIP 5% 1/10W 1-216-013-00 s RES, CHIP 5% 1/10W 1-216-015-00 s RES, CHIP 39 5% 1/10W 1-216-017-00 s RES, CHIP 47 5% 1/10W 1-216-019-00 s RES, CHIP 56 5% 1/10W 1-216-021-00 s RES, CHIP 68 5% 1/10W 1-216-023-00 s RES, CHIP 5% 1/10W 1-216-025-00 s RES, CHIP 100 5% 1/10W 1-216-027-00 s RES, CHIP 120 5% 1/10W 150 1-216-029-00 s RES, CHIP 5% 1/10W 1-216-031-00 s RES, CHIP 180 5% 1/10W 220 5% 1/10W 1-216-033-00 s RES, CHIP 1-216-035-00 s RES, CHIP 270 5% 1/10W 5% 1/10W 1-216-037-00 s RES, CHIP 330 1-216-039-00 s RES, CHIP 5% 1/10W 390 1-216-041-00 s RES, CHIP 470 5% 1/10W 1-216-043-00 s RES, CHIP 560 5% 1/10W 1-216-045-00 s RES, CHIP 5% 1/10W 680 1-216-047-00 s RES, CHIP 820 5% 1/10W 1-216-049-00 s RES, CHIP 1k 5% 1/10W 1-216-051-00 s RES, CHIP 1.2k 5% 1/10W 1-216-053-00 s RES, CHIP 1.5k 5% 1/10W 1-216-055-00 s RES, CHIP 1.8k 5% 1/10W 1-216-057-00 s RES, CHIP 2.2k 5% 1/10W 1-216-059-00 s RES, CHIP 2.7k 5% 1/10W 1-216-061-00 s RES, CHIP 3. 3k 5% 1/10W 1-216-063-00 s RES, CHIP 3. 9k 5% 1/10W 1-216-065-00 s RES, CHIP 4.7k 5% 1/10W 1-216-067-00 s RES, CHIP 5.6k 5% 1/10W 1-216-069-00 s RES, CHIP 6.8k 5% 1/10W 1-216-071-00 s RES, CHIP 8.2k 5% 1/10W 1-216-073-00 s RES, CHIP 10k 5% 1/10W 1-216-075-00 s RES, CHIP 12k 5% 1/10W 1-216-077-00 s RES, CHIP 15k 5% 1/10W 1-216-079-00 s RES, CHIP 1-216-081-00 s RES, CHIP 18k 5% 1/10W 22k 5% 1/10W 1-216-083-00 s RES, CHIP 27k 5% 1/10W 1-216-085-00 s RES, CHIP 33k 5% 1/10W 39k 5% 1/10W 1-216-748-11 s RES, CHIP

1-216-089-00 s RES, CHIP 47k 5% 1/10W 1-216-091-00 s RES, CHIP 56k 5% 1/10W

# RESISTOR, CHIP

#### Part No. SP Description

1-216-093-00 s RES, CHIP 68k 5% 1/10W 1-216-095-00 s RES, CHIP 82k 5% 1/10W 1-216-097-00 s RES, CHIP 100k 5% 1/10W 1-216-099-00 s RES, CHIP 120k 5% 1/10W 1-216-101-00 s RES, CHIP 150k 5% 1/10W 1-216-103-00 s RES, CHIP 180k 5% 1/10W 1-216-105-00 s RES, CHIP 220k 5% 1/10W 1-216-107-00 s RES, CHIP 270k 5% 1/10W 1-216-109-00 s RES, CHIP 330k 5% 1/10W 1-216-111-00 s RES, CHIP 390k 5% 1/10W 1-216-113-00 s RES, CHIP 470k 5% 1/10W 1-216-115-00 s RES, CHIP 560k 5% 1/10W 1-216-117-00 s RES, CHIP 680k 5% 1/10W 1-216-119-00 s RES, CHIP 820k 5% 1/10W 1-216-121-00 s RES, CHIP 1.0M 5% 1/10W 1-216-123-11 s RES, CHIP 1.2M 5% 1/10W 1-216-125-00 s RES, CHIP 1.5M 5% 1/10W 1-216-127-11 s RES, CHIP 1.8M 5% 1/10W 1-216-129-00 s RES, CHIP 2.2M 5% 1/10W 1-216-131-11 s RES, CHIP 2.7M 5% 1/10W 1-216-133-00 s RES, CHIP 3.3M 5% 1/10W

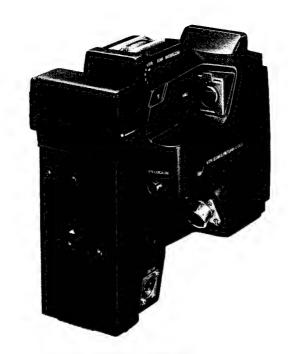
	CA-15 BO/		(CA-15 B	narn)
				·
:	Ref. No. or Q'ty	Part No. SP Description	Ref. No. or Q'ty	Part No. SP Description
	1pc	A-7515-231-A o MOUNTED CIRCUIT BOARD "CA-15"	C58 C59	1-126-157-11 s ELECT 10uF 20% 16V 1-163-235-11 s CERAMIC 22PF 5% 50V
	C1	1-131-377-00 s TANTALUM 10uF 10% 10V 1-124-472-11 s ELECT 470uF 20% 10V	CN1	1-500-501-11 a CONNECTOD MILITI FOR
	C2 C3	1-124-472-11 S ELECT 4700F 20% 10V 1-126-176-11 S ELECT 220uF 20% 10V	CN1	1-566-581-11 o CONNECTOR, MULTI 50P 1-506-477-11 o CONNECTOR, 12P, MALE
	C4	1-163-227-11 s CERAMIC 10PF 5% 50V		1-569-205-11 o PLUG HOUSING, 12P
	C5	1-124-584-00 s ELECT 100uF 20% 10V		1-569-191-11 o TERMINAL, SOLDERLESS 1-569-193-11 o CONTACT
	C6	1-124-589-11 s ELECT 47uF 20% 10V		1 303 133 11 O CONTACT
	C 7	1-164-232-11 s CERAMIC CHIP 0.01uF 20% 100V	CN3	1-506-471-11 o CONNECTOR, 6P, MALE
	C8 C9	1-124-638-11 s ELECT 22uF 20% 6.3V 1-124-589-11 s ELECT 47uF 20% 10V	CN4 CN5	1-506-470-11 o CONNECTOR, 5P, MALE 1-506-469-11 o CONNECTOR, 4P, MALE
	C10	1-124-369-11 S EEECT 4707 20% 10V 1-163-227-11 S CERAMIC 10PF 5% 50V	CNJ	1-569-197-11 o PLUG HOUSING, 4P
	C11	1-164-232-11 s CERAMIC CHIP 0.01uF 20% 100V		1-569-191-11 o TERMINAL, SOLDERLESS
	C12	1-164-232-11 s CERAMIC CHIP 0. 01uF 20% 100V		1-569-193-11 o CONTACT
	C13	1-124-584-00 s ELECT 100uF 20% 10V		
	C14 C15	1-163-038-00 s CERAMIC CHIP 0. 1uF 25V	CN6 CN7	1-560-356-00 o CONNECTOR POST HEADER, ILG (2P) 1-506-467-11 o CONNECTOR, 2P, MALE
	013	1-131-303-00 S INNIALOM 1001 10% 10V	ONT	1-569-195-11 s HOUSING, CONNECTOR 2P
	C16	1-131-365-00 s TANTALUM 10uF 10% 16V 1-164-232-11 s CERAMIC CHIP 0.01uF 20% 100V 1-131-365-00 s TANTALUM 10uF 10% 16V		1-569-191-11 o TERMINAL, SOLDERLESS
	C17 C18	1-131-365-00 s TANTALUM 10ur 10% 16V 1-131-377-00 s TANTALUM 10uF 10% 10V		1-569-193-11 o CONTACT
	C19	1-164-232-11 s CERAMIC CHIP 0.01uF 20% 100V	CN8	1-506-469-11 o CONNECTOR, 4P, MALE
	C20	1-131-347-00 s TANTALUM 1uF 10% 35V	CN9	1-564-467-11 o CONNECTOR, 2P, MALE
	C21	1-126-301-11 s FLECT 1uF 20% 50V		1-569-195-11 s HOUSING, CONNECTOR 2P 1-569-191-11 o TERMINAL, SOLDERLESS
	C 22	1-131-377-00 S TANTALUM 100F 10% 10V 1-164-232-11 S CERAMIC CHIP 0.01uF 20% 100V 1-131-347-00 S TANTALUM 1uF 10% 35V 1-126-301-11 S ELECT 1uF 20% 50V 1-124-463-00 S ELECT 0.1uF 20% 50V		1-569-193-11 o CONTACT
	C 23	1-126-301-11 s ELECT 1uF 20% 50V		1 FOR ARE 11 GOVERNOOD OF MALE
	C24 C25	1-163-038-00 s CERAMIC CHIP 0. 1uF 25V 1-124-584-00 s ELECT 100uF 20% 10V 1-124-893-11 s ELECT 2200uF 20% 6.3V 1-126-176-11 s ELECT 220uF 20% 10V 1-163-036-00 s CERAMIC CHIP 0.068uF 50V	CN10	1-506-467-11 o CONNECTOR, 2P, MALE
	C 26	1-124-893-11 s ELECT 2200uF 20% 6.3V	D2	8-719-104-31 s DIODE 1S2838 8-719-104-34 s DIODE 1S2836
	C 27	1-124-893-11 S ELECT 2200H 20% 0. 3V 1-126-176-11 S ELECT 220uF 20% 10V	D3	8-719-104-34 S DIODE 152838
	C 28	1-163-036-00 s CERAMIC CHIP 0.068uF 50V	D5	8-719-104-31 s DIODE 1S2838
	C29 C30	1-126-157-11 s ELECT 10uF 20% 16V 1-124-472-11 s ELECT 470uF 20% 10V	D6	8-719-106-16 s DIODE RD6.8M-B1
	0.30	I LET TILE II S BBBOT TION. 200 TO	D7	8-719-104-34 s DIODE 1S2836
	C31	1-126-154-11 s ELECT 47uF 20% 6. 3V	D8	8-719-105-32 s DIODE RD2. 7M-B2
	C 32 C 33	1-163-251-11 s CERAMIC 100PF 5% 50V 1-126-157-11 s ELECT 10uF 20% 16V	D9 D10	8-719-800-76 s DIODE 1SS226 8-719-800-76 s DIODE 1SS226
	C 34	1-163-251-11 s CERAMIC 100PF 5% 50V	D11	8-719-104-34 s DIODE 1S2836
	C 35	1-124-584-00 s ELECT 100uF 20% 10V	D12	9-710-100-70 - NIONE DD10W D1
	C36	1-164-232-11 s CERAMIC CHIP 0.01uF 20% 100V	D12 D13	8-719-106-70 s DIODE RD12M-B1 8-719-105-63 s DIODE RD4.3M-B1
	C 37	1-124-584-00 s ELECT 100uF 20% 10V	D14	8-719-800-76 s DIODE 1SS226
	C 38	1-124-584-00 s ELECT 100uF 20% 10V	D15	8-719-104-31 s DIODE 1S2838
	C 39 C 40	1-126-176-11 s ELECT 220uF 20% 10V 1-131-365-00 s TANTALUM 10uF 10% 16V	D16	8-719-938-75 s SB05-05CP
			D17	8-719-104-31 s DIODE 1S2838
	C 41 C 42	1-163-086-00 s CERAMIC CHIP 3PF 0.25PF 50V 1-163-088-00 s CERAMIC CHIP 5PF 0.25PF 50V	D18	8-719-104-31 s DIODE 1S2838
	C42 C43	1-124-584-00 s ELECT 100uF 20% 10V	IC1	8-759-981-65 s IC LM2903M
	C44	1-124-584-00 s ELECT 100uF 20% 10V	IC2	8-759-300-71 s IC MC14053BF
	C45	1-126-176-11 s ELECT 220uF 20% 10V	IC3 IC4	8-759-300-71 s IC MC14053BF 8-759-300-71 s IC MC14053BF
	C46	1-126-176-11 s ELECT 220uF 20% 10V	IC5	8-759-300-71 s IC MC14053BF
	C47	1-126-176-11 s ELECT 220uF 20% 10V		
	C 48	1-126-176-11 s ELECT 220uF 20% 10V 1-163-086-00 s CERAMIC CHIP 3PF 0.25PF 50V	ICS IC7	8-759-100-96 s IC UPC4558G2
	C49 C50	1-163-088-00 s CERAMIC CHIP 5PF 0. 25PF 50V	IC8	8-759-605-18 s IC CX518 8-759-981-58 s IC RC2043MD
			IC9	8-759-300-71 s IC MC14053BF
	C51	1-164-232-11 s CERAMIC CHIP 0.01uF 20% 100V	IC10	8-759-981-99 s IC RC4560M
	C 52 C 53	1-164-232-11 s CERAMIC CHIP 0.01uF 20% 100V 1-163-086-00 s CERAMIC CHIP 3PF 0.25PF 50V	L1	1-408-413-00 s MICRO 22uH
	C 54	1-163-088-00 s CERAMIC CHIP 5PF 0.25PF 50V	L2	1-408-413-00 s MICRO 22uH
	C 55	1-124-584-00 s ELECT 100uF 20% 10V	L3	1-410-478-11 s 47uH
	C 56	1-124-584-00 s ELECT 100uF 20% 10V	L4 L6	1-410-478-11 s 47uH 1-410-478-11 s 47uH
	C 57	1-126-157-11 s ELECT 10uF 20% 16V		

#### (CA-15 BOARD)

Ref. No. or Q'ty Part No. SP Description 1-408-413-00 s MICRO 22uH 1.7 1-408-413-00 s MICRO 22uH 1.8 8-729-201-05 s TRANSISTER 2SC2878-B 01 8-729-201-05 s TRANSISTER 2SC2878-B Q2 Q3 8-729-216-22 s TRANSISTOR 2SA1162 8-729-100-66 s TRANSISTOR 2SC1623 04 8-729-402-19 s TRANSISTOR XN6501 05 8-729-100-66 s TRANSISTOR 2SC1623 Q6 8-729-216-22 s TRANSISTOR 2SA1162 Q7 8-729-216-22 s TRANSISTOR 2SA1162 **Q**8 8-729-402-19 s TRANSISTOR XN6501 Q9 8-729-216-22 s TRANSISTOR 2SA1162 Q10 8-729-100-66 s TRANSISTOR 2SC1623 011 8-729-100-66 s TRANSISTOR 2SC1623 Q12 Q13 8-729-100-66 s TRANSISTOR 2SC1623 8-729-100-66 s TRANSISTOR 2SC1623 Q14 8-729-216-22 s TRANSISTOR 2SA1162 Q15 016 8-729-100-66 s TRANSISTOR 2SC1623 8-729-100-66 s TRANSISTOR 2SC1623 017 8-729-100-66 s TRANSISTOR 2SC1623 Q18 019 8-729-100-66 s TRANSISTOR 2SC1623 8-729-402-84 s TRANSISTER XN4601 **Q**20 8-729-109-41 s TRANSISTOR 2SK94-X1 Q21 8-729-402-19 s TRANSISTOR XN6501 Q22 8-729-402-84 s TRANSISTER XN4601 Q23 8-729-403-32 s TRANSISTOR XN6534 024 8-729-216-22 s TRANSISTOR 2SA1162 Q25 Q26 8-729-402-19 s TRANSISTOR XN6501 8-729-402-78 s TRANSISTOR XN6401 027 8-729-100-66 s TRANSISTOR 2SC1623 028 8-729-403-32 s TRANSISTOR XN6534 **Q**29 8-729-216-22 s TRANSISTOR 2SA1162 030 8-729-402-19 s TRANSISTOR XN6501 031 8-729-402-78 s TRANSISTOR XN6401 032 8-729-403-32 s TRANSISTOR XN6534 033 8-729-216-22 s TRANSISTOR 2SA1162 Q34 Q35 8-729-402-19 s TRANSISTOR XN6501 036 8-729-402-78 s TRANSISTOR XN6401 8-729-201-05 s TRANSISTER 2SC2878-B 037 1-249-399-11 s CARBON 33 5% 1/4W R1 1-215-393-00 s METAL 68 1% 1/6W R8 R9 1-215-393-00 s METAL 68 1% 1/6W 1-215-394-00 s METAL 75 1% 1/6W R22 1-215-393-00 s METAL 68 1% 1/6W R42 1-215-394-00 s METAL 75 1% 1/6W 1-215-431-00 s METAL 2.7K 1% 1/6W R54 R91 1-216-667-11 s METAL CHIP 4.7K 0.50% 1/10W R95 1-215-394-00 s METAL 75 1% 1/6W R103 1-216-667-11 s METAL CHIP 4.7K 0.50% 1/10W R104 1-216-667-11 s METAL CHIP 4.7K 0.50% 1/10W 1-216-667-11 s METAL CHIP 4.7K 0.50% 1/10W R119 R120 1-215-394-00 s METAL 75 1% 1/6W R127 1-216-667-11 s METAL CHIP 4.7K 0.50% 1/10W 1-216-667-11 s METAL CHIP 4.7K 0.50% 1/10W R131 R132 1-215-394-00 s METAL 75 1% 1/6W R139 1-226-703-11 s RES, ADJ, METAL 10K 1-226-775-11 s RES, ADJ, METAL 100K RV1 RV2

(CA-15 BOARD) Ref. No. or Q'ty Part No. SP Description 1-427-270-XX s TRANSFORMER, OUTPUT 1-427-487-00 s TRANSFORMER, OUTPUT CN-498 BOARD Ref. No. or Q'ty Part No. SP Description A-7520-519-A o MOUNTED CIRCUIT BOARD "CN-498" 1--506--702--11 o CONNECTOR, ILG 3P,  $\cdot$  1-561-515-00 o HOUSING, ILG 3P FEMALE 1-560-372-00 o CONTACT, AWG22-28 CN1 1-506-702-11 o CONNECTOR, ILG 3P, CN2 1-561-515-00 o HOUSING, ILG 3P FEMALE 1-560-372-00 o CONTACT, AWG22-28 CN3 1-560-356-00 o CONNECTOR POST HEADER, ILG (2P) MAL 1-561-514-00 o HOUSING, ILG 2P FEMALE 1-560-372-00 o CONTACT, AWG22-28 1-561-514-00 o HOUSING, ILG 2P FEMALE 1-560-372-00 o CONTACT, AWG22-28 CNR CN10 1-569-195-11 s HOUSING, CONNECTOR 2P 1-562-735-11 o HOUSING, 2P 1-564-831-11 o CONTACT 1-569-193-11 o CONTACT 1-553-739-21 s SWITCH, PUSH SI CN-527 BOARD Ref. No. or Q'ty Part No. SP Description 1-636-740-12 o PRINTED CIRCUIT BOARD "CN-527" 1pc CN8 1-569-197-11 o HOUSING, CONNECTER 4P 1-569-191-11 o CONTACT 1-569-193-11 o CONTACT

SW-447 B	OARD		FRAME	
Ref. No. or Q'ty		SP Description	Ref. No. or Q'ty	Part No. SP Description
1pc	A-7520-518-A	o MOUNTED CIRCUIT BOARD "SW-447"	C1001 C1002	1-161-051-00 s CERAMIC 0.01uF 10% 25V 1-161-051-00 s CERAMIC 0.01uF 10% 25V
C1	1-161-051-00	s CERAMIC 0.01uF 10% 25V		
C2	1-161-051-00	s CERAMIC 0.01uF 10% 25V	CN101	1-508-942-00 s RECEPTACLE, 14P MAIL "VTR/CCU/CMA"
C3	1-161-051-00	s CERAMIC 0.01uF 10% 25V	CN102	1-564-603-11 s CONNECTOR WITH DC SW, 4P, MALE
C4	1-161-051-00	s CERAMIC 0.01uF 10% 25V	CN103	1-563-096-11 s RECEPTACLE, 3P FEMAIL (WITH SW) "MIC IN"
CN3		o PLUG HOUSING, 6P o HOUSING, CONNECTOR 6P	CN104	1-568-699-11 s SOCKET, MINIATURE (ROUND) 4P "S VIDEO OUT"
	1-564-831-11	o CONTACT	CN105	1-507-918-00 o JACK, 1P "AUDIO OUT"
	1 303 133 11	OCONTACT	CN 106	1-561-781-11 s CONNECTOR, BNC, FEMALE
CN4	1-569-198-11	o PLUG HOUSING, 5P		
UN I		o HOUSING, 5P	R1001	1-247-826-00 s CARBON 620 5% 1/4W
		o TERMINAL, SOLDERLESS	SW101	1-552-665-00 s SWITCH, MICRO
JK1	1-507-883-00	s JACK, SMALL TYPE 4P		
JK2	1-566-740-11	•		
S1	1-554-955-11	s SWITCH, ROTARY "VTR"		



#### **SPECIFICATIONS**

Inputs/Outputs VTR/CCU/CMA connector: Sony Q-type,

14-pin

DC IN: XLR-type, 4-pin MIC IN: XLR-type, 3-pin GEN LOCK IN: BNC-type

EAR: mini jack

INTERCOM: mini intercom jack S VIDEO OUT: mini DIN-type, 4-pin

AUDIO OUT: phono jack

Power requirements

12 V DC

Power consumption

0.8 W

Operating temperature

-5°C to +45°C (23°F to 113°F)

Storage temperature

-20°C to +60°C (-4°F to +140°F)

Weight

1.2 kg (2 lb 10 oz)

Dimensions 11

 $118\times205\times187~\text{mm}$ 

 $(4^3/4 \times 8^1/3 \times 7^3/8$  inches)

Supplied accessories

Screws for attaching the CA-327/327P

 $M4 \times 6 (2)$  $M4 \times 12 (2)$ 

Operating instructions (1)

Design and specifications are subject to change without notice.



# **TABLE OF CONTENTS**

A.	BLOCK DIAGRAMS
	OverallA-1
В.	SEMICONDUCTOR
	SemiconductorB-1
C.	SCHEMATIC DIAGRAMS AND BOARD ILLUSTRATIONS
	CA-15 — CN-498 CN-527 SW-447 — C-4
D.	SPARE PARTS
	Parts Information

# SECTION A BLOCK DIAGRAM

SV

OF THE PROPERTY OF THE PRO

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6

DXF-501 (J, UC) DXF-501CE (EK)

A-1

D

1

2

B-DXF501-BLOCK/N

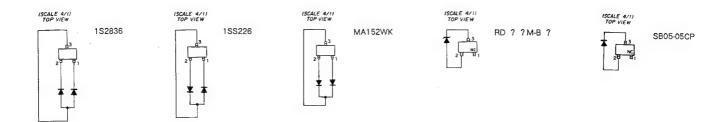
# SECTION B SEMICONDUCTOR

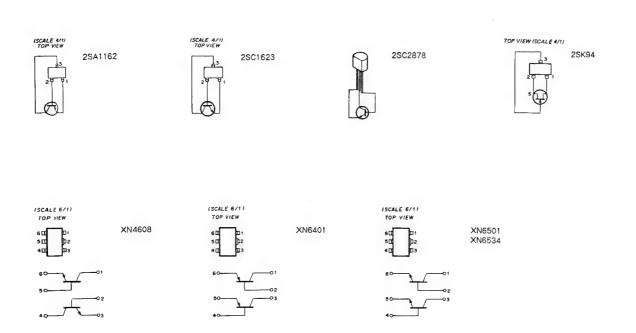
The circuit diagram of IC is obtained from the IC data book published by the manufacturer.

TYPE	PAGE
1S2836 · · · · · · · · · · · · · · · · · · ·	B-1 B-1
2SA1162 · · · · · · · · · · · · · · · · · · ·	B-1 B-1 B-1 B-1
CX518 · · · · · · · · · · · · · · · · · · ·	B-2
LM2903M ·····	B-2
MA152WK · · · · · · · · · · · · · · · · · · ·	B-1 B-2
RC2043MD RC4560M RD ? ? M-B ?	B-2 B-2 B-1
SB05-05CP·····	B-1
uPC4558G2 · · · · · · · · · · · · · · · · · · ·	B-2
XN4608 XN6401 XN6501 XN6534	B-1 B-1 B-1 B-1

CA-327 (J, UC) CA-327P (EK)

# DIODE, TRANSISTOR

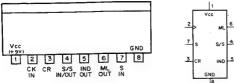


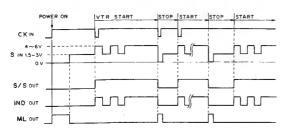


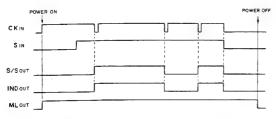
#### CX518 (SONY)

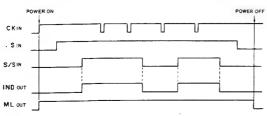
INTERFACE CIRCUIT BETWEEN VTR AND CAMERA











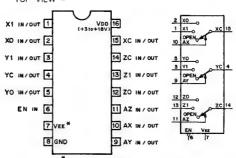
#### LM2903M (RAYTHEON) FLAT PACKAGE

DUAL VOLTAGE COMPARATORS - TOP VIEW -



MC14053BF (MOTOROLA) FLAT PACKAGE

C-MOS TRIPLE 2-CHANNEL ANALOG MULTIPLEXER/DEMULTIPLEXER — TOP VIEW —



	CON	T. INPUTS	ON
	EN	A (X,Y,Z,)	CHANNEL
O; LOW LEVEL	0	0	0
1 HIGH LEVEL	0	1	1
X; DON'T CARE.	1	×	OPEN

#### RC2043MD (RAYTHEON) FLAT PACKAGE

OPERATIONAL AMPLIFIER - TOP VIEW -



### RC4560M (RAYTHEON) FLAT PACKAGE

OPERATIONAL AMPLIFIER - TOP VIEW -

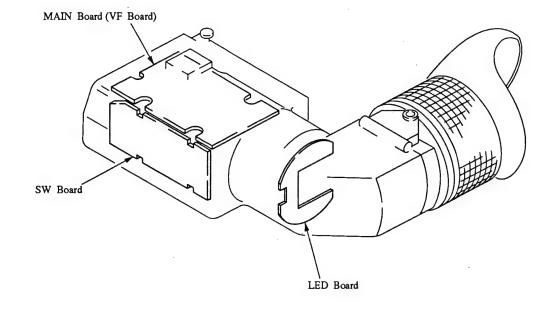


#### uPC4558G2 (NEC) FLAT PACKAGE

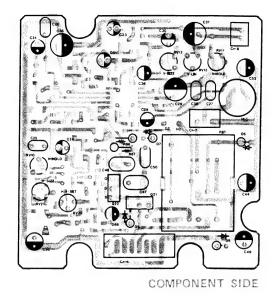
OPERATIONAL AMPLIFIER - TOP VIEW -

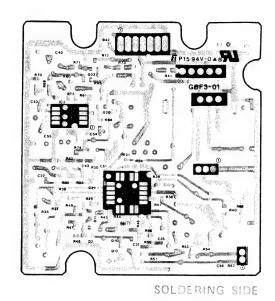


# SECTION C SCHEMATIC DIAGRAMS AND BOARD ILLUSTRATIONS



# MAIN BOARD



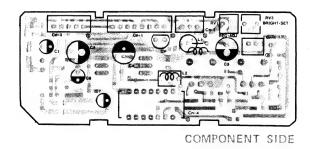


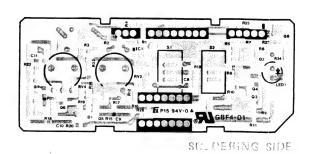
SHUT. GAIN.

COMPONENT SIDE

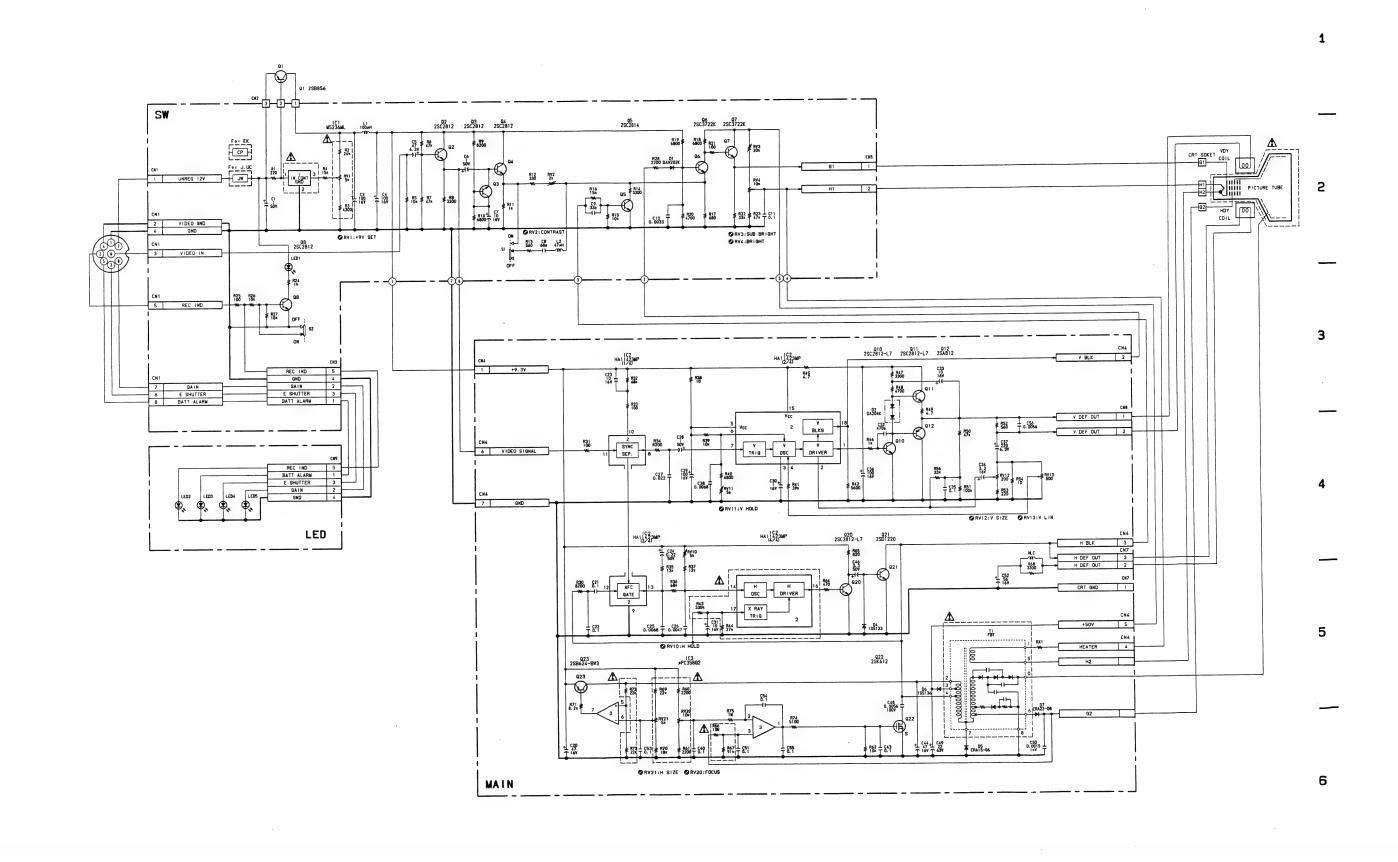
LED BOARD

SW BOARD





FRAME



DXF-501 (J, UC) DXF-501CE (EK)

C-5 B

C-5 3

С

.

·

D

i

C-6

B-DXF501-FRAME/M

# SECTION D SPARE PARTS

#### PARTS INFORMATION

# 1. Safety Related Component Warning

- 2. Replacement Parts supplied from Sony Parts Center will sometimes have different shape and outside view from the parts which actually in use. This is due to "accommodating the improved parts and/or engineering changes" or "standardization of genuine parts." This manual 's exploded view and electrical spare parts lists are indicating the parts numbers of "the standardized genuine parts at present." Regarding engineering parts and diagrams changes in our engineering department, refer to SONY service bulletins and service manual supplements.
- 3. The parts marked with "S" in the SP column of the exploded views and electrical spare parts list are normally required for routine service work. Orders for parts marked with "O" will be processed, but allow for additional delivery time.
- 4. Item with no parts number and/or no description are not stocked because they are seldom required for routine service.
- All capacitors are in micro farads unless otherwise specified.
   All inductors are in micro henries unless otherwise specified.
   All resistors are in ohms.

#### EXPLODED VIEW

#### CCD BLOCK

```
SP Description
                          Part No.
No.
                          A-7515-210-A o MOUNTED CIRCUIT BOARD, CN-432
A-7515-216-A o MOUNTED CIRCUIT BOARD, TG-72(N)
(for DXC-327)
A-7515-217-A o MOUNTED CIRCUIT BOARD, TG-72(P)
(for DXC-327P)
A-7515-218-A o MOUNTED CIRCUIT BOARD, PA-106
A-7515-219-A o MOUNTED CIRCUIT BOARD, PA-107G
     3
     4 5
                          A-7515-220-A o MOUNTED CIRCUIT BOARD, PA-107B
A-7515-221-A o MOUNTED CIRCUIT BOARD, BC-22
A-7520-515-A o MOUNTED CIRCUIT BOARD, SW-445
A-7575-155-A s CCD UNIT (N) (for DXC-327)
A-7575-156-A s CCD UNIT (P) (for DXC-327P)
     89
 10
                          X-3165-232-1 o COVER ASSY, BLOCK SHIELD
1-547-463-11 o FILTER UNIT, OPTICAL
1-553-739-21 s SWITCH, KEY BOARD
1-554-486-00 s SWITCH, TOGGLE "AUTO W/B BAL"
1-942-381-12 s HARNESS (LENS)
  12
  13
 14
15
                           3-672-253-11 o RUBBER, CONDUCTIVE
3-676-244-00 s COVER, SWITCH
3-678-629-00 s LEVER, MOUNT
3-678-632-00 o PACKING, KNOB
3-678-684-00 o HOLDER, CABLE
  18
  19
  \bar{20}
                           3-699-047-01 s KNOB, FILTER
3-699-106-01 o PANEL, FRONT
3-699-144-01 s CAP, MOUNT
3-699-182-01 o INSULATOR (2)
3-701-506-01 s SET SCREW, DOUBLE POINT 3X4
 22
23
 24
25
                           7-621-770-87 s SCREW +B 2.6X5
7-621-772-18 s SCREW +B 2X4
7-621-773-86 s SCREW +B 2.6X4
7-627-452-28 s SCREW, PRECISION +K 2X4
7-627-552-48 s SCREW, PRECISION +P 1.7X4
 26
27
 28
29
30
                           7-627-556-38 s SCREW +P 2.6X4.0
7-682-547-04 s SCREW +B 3X6
7-682-549-09 s SCREW +B 3X10
7-682-550-09 s SCREW +B 3X12
 31
32
33
34
```

# SECTION D SPARE PARTS

#### PARTS INFORMATION

# 1. Safety Related Component Warning

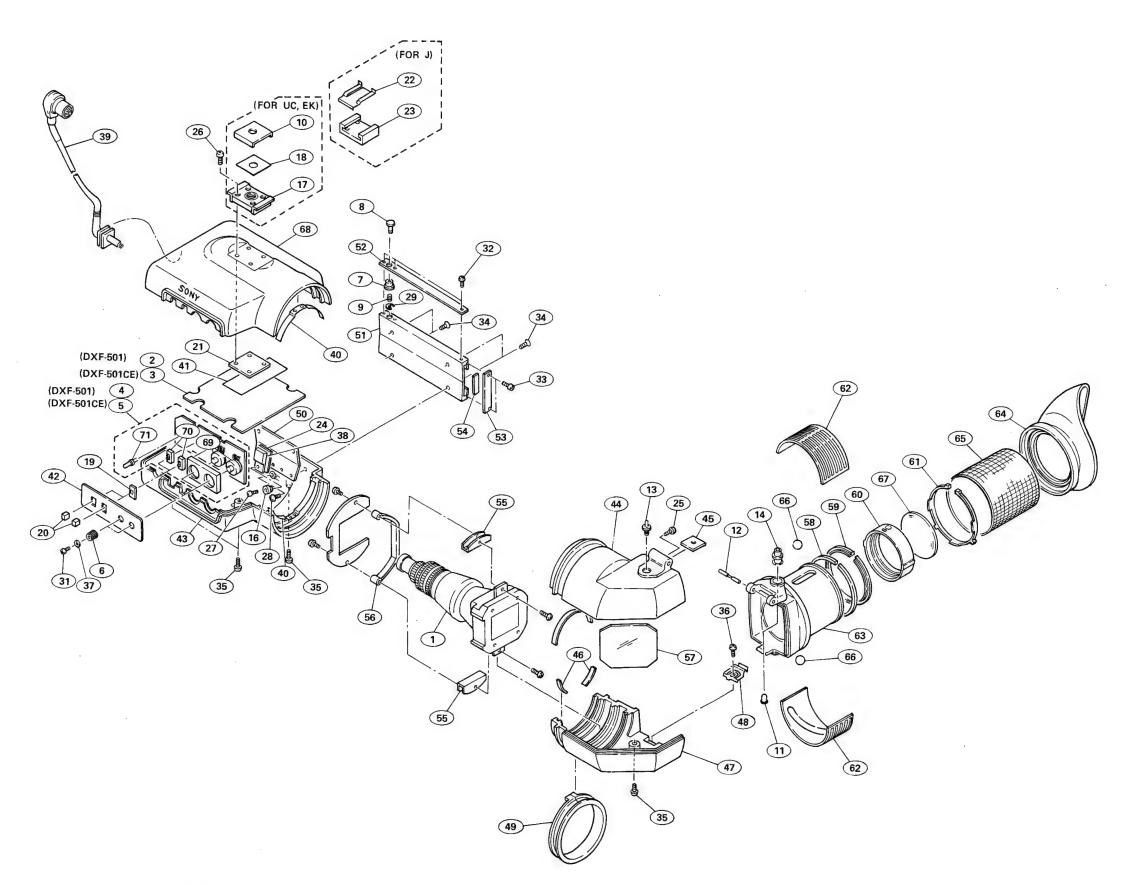
Components indentified by shading marked with  $\triangle$  on the schematic diagrams, exploded views and electrical spare parts list are critical to safe operation. Replace these components with Sony parts whose parts numbers appear as shown in this manual or in service manual supplements published by Sony.

- 2. Replacement Parts supplied from Sony Parts Center will sometimes have different shape and outside view from the parts which actually in use. This is due to "accommodating the improved parts and/or engineering changes" or "standardization of genuine parts." This manual 's exploded view and electrical spare parts lists are indicating the parts numbers of "the standardized genuine parts at present." Regarding engineering parts and diagrams changes in our engineering department, refer to SONY service bulletins and service manual supplements.
- 3. "he parts marked with "S" in the SP column of the exploded views and electrical spare parts list are normally required for routine service work. Orders for parts marked with "O" will be processed, but allow for additional delivery time.
- 4. Item with no parts number and/or no description are not stocked because they are seldom required for routine service.
- All capacitors are in micro farads unless otherwise specified.
   All inductors are in micro henries unless otherwise specified.
   All resistors are in ohms.

DXF-501 (UC) DXF-501CE (EK)



# EXPLODED VIEW



## CHASSIS (1) BLOCK

```
Part No. SP Description
No.
                      A-7420-147-B s PAD ASSY, SHOULDER
A-7420-197-A o HANDLE ASSY
A-7520-516-A o MOUNTED CIRCUIT BOARD, SW-446
X-3664-212-2 s SHOE ASSY (B), T
X-3699-015-1 o BRACKET(B) ASSY
 101
 102
 103
 105
                       1-542-112-11 s MICROPHONE (C-2025)
1-553-972-00 s SWITCH, TOGGLE "POWER"
1-561-320-12 s SOCKET, DIN 8P "VF"
1-561-781-11 s CONNECTOR, BNC "VIDEO OUT"
1-562-782-21 s CONNECTOR 10P FEMALE "REMOTE"
106
 107
 108
 109
 110
                       1-570-985-11 s SWITCH, TOGGLE "GAIN" "WB"
1-942-381-12 s HARNESS (LENS)
1-946-627-11 o HARNESS (RM)
2-277-468-01 o PLATE, ORNAMENTAL, CAMERA SHOE
3-166-292-01 o PLATE, CONNECTOR
 112
  113
 114
 115
                       3-166-293-01 o STOPPER, PC BOARD
3-166-298-01 o LABEL, SW
3-641-622-00 s SPRING, COMPRESSION
3-657-700-00 s BRACKET, ACCESSORY
3-664-213-00 o SCREW, STOPPER
  116
  117
  118
  120
                        3-664-218-00 o SHUE
3-664-228-00 o PLATE, SPRING
3-672-213-00 o SHEET, ADHESIVE
3-675-963-02 s FOOT, FRONT, RUBBER
3-675-964-01 s FOOT, REAR, RUBBER
  122
  123
  124
                        3-675-965-01 s SPACER (2.6X2)
3-682-718-02 o SHOE, VF SLIDE
3-682-758-01 o SPACER
3-682-759-01 o RING, LOCK
3-682-760-01 o SCREW (M7-0.75), ADJUSTMENT
  126
  127
  128
  129
                        3-689-039-11 s BOLT (M2X6), HOLE, HEXAGON
3-699-104-01 o CABINET
3-699-110-01 o BRACKET (A)
3-699-131-01 o GUIDE, PC BOARD
3-699-145-01 o PLATE, GROUND
  132
133
   135
                        3-699-176-01 o STOPPER (2)

3-725-907-01 s BUSHING, BLIND

7-621-770-87 s SCREW +B 2.6X5

7-621-772-18 s SCREW +B 2X4

7-621-772-30 s SCREW +B 2X6
   136
    137
    138
    139
                        7-621-773-86 s SCREW +B 2.6X4
7-621-775-20 s SCREW +B 2.6X5
7-682-247-04 s SCREW +K 3X6
7-682-546-09 s SCREW +B 3X5
7-682-547-09 s SCREW +B 3X6
  142
143
    144
    145
                        7-682-561-09 s SCREW +B 4X8
7-682-562-09 s SCREW +B 4X10
7-683-410-04 s BOLT, HEXAGON SOCKET 3X20
7-683-412-05 s BOLT, HEXAGON SOCKET 2.6X6
7-683-425-04 s BOLT, HEXAGON SOCKET 4X20
  146
  147
   148
   149
    150
                        8-814-189-31 s MICROPHONE, BUILT-IN (C-1007A) 1-562-222-41 o CONNECTOR, 6P FEMALE "LENS"
```

## CHASSIS (2) BLOCK

```
SP Description
                     Part No.
No.
                     A-7420-143-A o PLATE (LEFT) ASSY, SIDE
A-7420-188-A o PLATE (RIGHT) ASSY, SIDE
A-7513-840-A o MOUNTED CIRCUIT BOARD, MX-18A(N)
(for DXC-327)
                                                                                                                                                                                       236
237
238
239
                                                                                                                                                                                                            3-699-125-01 s KNOB, DISPCHG
3-699-137-01 s PAD (C), SIDE
3-699-170-01 o BRACKET (UPPER), AT
3-699-171-01 o BRACKET (LOWER), AT
 202
                     A-7513-841-A o MOUNTED CIRCUIT BOARD, CM-22(N)
(for DXC-327)
A-7513-842-A o MOUNTED CIRCUIT BOARD, BRG-4
                                                                                                                                                                                                             3-699-172-01 o SHEET, STOPPER
                                                                                                                                                                                        240
 204
                                                                                                                                                                                                            3-699-179-01 o PLATE, SHIELD, IE
7-621-770-87 s SCREW +B 2.6X5
7-621-772-18 s SCREW +B 2X4
7-621-772-20 s SCREW +B 2X5
7-621-775-08 s SCREW +B 2.6X3
 205
                                                                                                                                                                                        242
243
244
                                                                                                                                    (for DXC-327)
                     A-7513-844-A o MOUNTED CIRCUIT BOARD, MX-18A(P)

(for DXC-327P)

A-7513-845-A o MOUNTED CIRCUIT BOARD, CM-22(P)

(for DXC-327P)

A-7515-211-A o MOUNTED CIRCUIT BOARD, AT-63

A-7515-212-A o MOUNTED CIRCUIT BOARD, MB-325(N)

(for DXC-327)

A-7515-213-A o MOUNTED CIRCUIT BOARD, MB-325(P)

(for DXC-327P)
 206
 207
                                                                                                                                                                                                             7-682-548-09 s SCREW +B 3X8
7-682-553-09 s SCREW +B 3X20
                                                                                                                                                                                        246
  208
 209
 210
                      A-7515-214-A o MOUNTED CIRCUIT BOARD, ES-2(N)
(for DXC-327)
A-7515-215-A o MOUNTED CIRCUIT BOARD, ES-2(P)
(for DXC-327P)
  211
                       A-7515-223-A o MOUNTED CIRCUIT BOARD, PR-148(N) (for DXC-327)
  213
                       A-7515-224-A o MOUNTED CIRCUIT BOARD, PR-148(P)
(for DXC-327P)
A-7515-225-A o MOUNTED CIRCUIT BOARD, PR-147
  214
  215
                       A-7515-226-A o MOUNTED CIRCUIT BOARD, VA-105R
A-7515-227-A o MOUNTED CIRCUIT BOARD, VA-105G
A-7515-228-A o MOUNTED CIRCUIT BOARD, VA-105B
A-7515-229-A o MOUNTED CIRCUIT BOARD, IE-29(N)
(for DXC-327)
A-7515-230-A o MOUNTED CIRCUIT BOARD, IE-29(P)
(for DXC-327P)
  216
217
  218
  219
  220
                       1-237-518-21 s RES, ADJ, METAL 10K "PHASE SC/H"
1-553-977-00 s SWITCH, SLIDE "MARKER"
1-554-303-21 s SWITCH, KEY BOARD "REC REVIEW"
1-554-364-00 s SWITCH, SLIDE "DISP CHG"
1-570-865-11 s SWITCH, SLIDE "SHUTTER" "ZEBRA" "PHASE" "BARS"
  221
222
223
224
225
                        1-574-145-11 s WIRE, FLAT TYPE (30 CORE)
1-590-168-11 s WIRE, FLAT TYPE (16 CORE)
3-166-294-01 o FRAME, SLIDE DOOR
3-166-295-01 o DOOR, SLIDE
3-166-296-01 o PLATE, SWITCH
  226
227
228
229
                        3-167-445-01 s KNOB, SWITCH
3-168-689-01 o PLATE (2) SHIELD AT
3-672-253-11 o RUBBER, CONDUCTIVE
3-676-244-00 s COVER, SWITCH
3-699-107-01 o PLATE (RIGHT), SIDE
   231
232
233
   234
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## RESISTOR, CHIP

# SP Description Part No. 1-216-295-00 s RES, CHIP 1-216-298-00 s RES, CHIP 1-216-302-00 s RES, CHIP 1-216-304-11 s RES, CHIP 1-216-306-11 s RES, CHIP 5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W 0 2.2 2.7 3.3 5% 1/10W 1-216-308-00 s RES, CHIP 4.7 1-216-309-00 s RES, CHIP 5.6 1-216-311-00 s RES, CHIP 6.8 1-216-313-00 s RES, CHIP 8.2 1-216-001-00 s RES, CHIP 10 5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W 1-216-003-11 s RES, CHIP 1-216-005-00 s RES, CHIP 1-216-007-00 s RES, CHIP 1-216-009-00 s RES, CHIP 1-216-011-00 s RES, CHIP 5% 1/10W 5% 1/10W 5% 1/10W 18 22 27 5% 1/10W 5% 1/10W 1-216-013-00 s RES, CHIP 1-216-015-00 s RES, CHIP 1-216-017-00 s RES, CHIP 1-216-019-00 s RES, CHIP 1-216-021-00 s RES, CHIP 5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W 39 47 56 1-216-023-00 s RES, CHIP 1-216-025-00 s RES, CHIP 1-216-027-00 s RES, CHIP 1-216-029-00 s RES, CHIP 1-216-031-00 s RES, CHIP 5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W 100 120 150 180 5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W 1-216-033-00 s RES, CHIP 1-216-035-00 s RES, CHIP 1-216-037-00 s RES, CHIP 1-216-039-00 s RES, CHIP 1-216-041-00 s RES, CHIP 220 270 330 390 1-216-043-00 s RES, CHIP 1-216-045-00 s RES, CHIP 1-216-047-00 s RES, CHIP 1-216-049-00 s RES, CHIP 1-216-051-00 s RES, CHIP 560 5% 1/10W 680 5% 1/10W 820 5% 1/10W 1k 5% 1/10W 1.2k 5% 1/10W 1.5k 5% 1/10W 1.8k 5% 1/10W 2.2k 5% 1/10W 2.7k 5% 1/10W 3.3k 5% 1/10W 1-216-053-00 s RES, CHIP 1-216-055-00 s RES, CHIP 1-216-057-00 s RES, CHIP 1-216-059-00 s RES, CHIP 1-216-061-00 s RES, CHIP 1-216-063-00 s RES, CHIP 1-216-065-00 s RES, CHIP 1-216-067-00 s RES, CHIP 1-216-069-00 s RES, CHIP 1-216-071-00 s RES, CHIP 3.9k 5% 1/10W 4.7k 5% 1/10W 5.6k 5% 1/10W 6.8k 5% 1/10W 8.2k 5% 1/10W 1-216-073-00 s RES, CHIP 1-216-075-00 s RES, CHIP 1-216-077-00 s RES, CHIP 1-216-079-00 s RES, CHIP 1-216-081-00 s RES, CHIP 10k 12k 15k 18k 22k 5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W 27k 33k 39k 47k 56k 5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W 1-216-083-00 s RES, CHIP 1-216-085-00 s RES, CHIP 1-216-748-11 s RES, CHIP 1-216-089-00 s RES, CHIP 1-216-091-00 s RES, CHIP

## RESISTOR, CHIP

Part No.	SP	Desci	ription	n		
1-216-093-00 1-216-095-00 1-216-097-00 1-216-099-00 1-216-101-00	\$ \$ \$ \$ \$	RES, RES, RES, RES, RES,	CHIP CHIP CHIP CHIP CHIP	82k	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
1-216-103-00 1-216-105-00 1-216-107-00 1-216-109-00 1-216-111-00	\$ \$ \$ \$	RES, RES, RES, RES, RES,	CHIP CHIP CHIP CHIP CHIP	220k 270k 330k	5% 5% 5%	1/10\\ 1/10\\ 1/10\\ 1/10\\ 1/10\\ 1/10\\ 1/10\\
1-216-113-00 1-216-115-00 1-216-117-00 1-216-119-00 1-216-121-00	2 2 2 2 3	RES, RES, RES, RES, RES,	CHIP CHIP CHIP CHIP	560k 680k 820k	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
1-216-123-11 1-216-125-00 1-216-127-11 1-216-129-00 1-216-131-11	2 2 2 2 3	RES, RES, RES,	CHIP CHIP CHIP CHIP CHIP	1.2M 1.5M 1.8M 2.2M 2.7M	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
1-216-133-00	S	RES,	CHIP	3.3M	5%	1/10W

# CAPACITOR, CHIP CERAMIC RESISTOR, CHIP METAL

Part No. SP	Description	
1-163-083-00 s 1-163-085-00 s 1-163-087-00 s 1-163-089-00 s 1-163-091-00 s	CAP, CHIP CERAMIC	$\begin{array}{rcl} 1pF & +-0.25pF & 50V \\ 2pF & +-0.25pF & 50V \\ 4pF & +-0.25pF & 50V \\ 6pF & +-0.5pF & 50V \\ 8pF & +-0.5pF & 50V \\ \end{array}$
1-163-093-00 s 1-163-097-00 s 1-163-101-00 s 1-163-105-00 s 1-163-109-00 s	CAP, CHIP CERAMIC CAP, CHIP CERAMIC CAP, CHIP CERAMIC CAP, CHIP CERAMIC CAP, CHIP CERAMIC	10pF 5% 50V 15pF 5% 50V 22pF 5% 50V 33pF 5% 50V 47pF 5% 50V
1-163-113-00 s 1-163-117-00 s 1-163-121-00 s 1-163-125-00 s 1-163-129-00 s	CAP, CHIP CERAMIC CAP, CHIP CERAMIC CAP, CHIP CERAMIC	68pF 5% 50V 100pF 5% 50V 150pF 5% 50V 220pF 5% 50V 330pF 5% 50V
1-163-133-00 s 1-163-137-00 s 1-163-141-00 s 1-163-145-00 s 1-164-161-11 s	CAP, CHIP CERAMIC CAP, CHIP CERAMIC CAP, CHIP CERAMIC	470pF 5% 50V 680pF 5% 50V 1000pF 5% 50V 1500pF 10% 50V 2200pF 10% 100V
1-164-182-11 s 1-163-017-00 s 1-163-019-00 s 1-164-232-11 s 1-163-023-00 s	CAP, CHIP CERAMIC CAP, CHIP CERAMIC CAP, CHIP CERAMIC	3300pF 10% 100V 4700pF 10% 50V 6800pF 10% 50V 0.01 20% 100V 0.015 10% 50V
		0.033 50V 0.047 50V 0.068 50V 0.1 50V

Part	No.	SP	Desci	riptio	on				
l-216 l-216 l-216	5-603-11 5-605-11 5-609-11 5-611-11 5-614-11	ls ls	RES, RES, RES, RES, RES,	CHIP CHIP CHIP CHIP CHIP	METAL METAL METAL METAL METAL	10 12 18 22 30	1% 1% 1% 1% 1%	1/10\\ 1/10\\ 1/10\\ 1/10\\ 1/10\\ 1/10\\ 1/10\\	
l-216 l-216 l-216	6-617-1 6-619-1 6-620-1 6-623-1 6-624-1	ls ls ls	RES, RES, RES, RES, RES,	CHIP CHIP CHIP CHIP	METAL METAL METAL METAL METAL	39 47 51 68 75	1% 1% 1% 1% 1%	1/10W 1/10W 1/10W 1/10W 1/10W	
1-210 1-210 1-210	6-625-1 6-626-1 6-627-1 6-629-1 6-631-1	ls ls ls	RES, RES, RES, RES, RES,	CHIP CHIP CHIP CHIP CHIP	METAL METAL METAL METAL METAL	82 91 100 120 150	1% 1% 1% 1% 1%	1/10W 1/10W 1/10W 1/10W 1/10W	
1-21 1-21 1-21	6-633-1 6-634-1 6-635-1 6-636-1 6-637-1	1 s 1 s 1 s	RES, RES, RES, RES, RES,	CHIP CHIP CHIP CHIP	METAL METAL METAL METAL METAL	180 200 220 240 270	1% 1% 1% 1% 1%	1/10W 1/10W 1/10W 1/10W 1/10W	
1-21 1-21 1-21	6-638-1 6-639-1 6-640-1 6-641-1 6-642-1	1 s 1 s 1 s	RES, RES, RES, RES, RES,	CHIP CHIP CHIP CHIP CHIP	METAL METAL METAL METAL METAL	300 330 360 390 430	1% 1% 1% 1% 1%	1/10\ 1/10\ 1/10\ 1/10\ 1/10\ 1/10\	
1-21 1-21 1-21	6-643-1 6-644-1 6-645-1 6-647-1 6-648-1	1 s 1 s 1 s	RES, RES, RES, RES, RES,	CHIP CHIP CHIP CHIP CHIP	METAL METAL METAL METAL METAL	470 510 560 680 750	1% 1% 1% 1% 1%	1/10W 1/10W 1/10W 1/10W 1/10W	
1-21 1-21 1-21	6-649-1 6-650-1 6-651-1 6-652-1 6-653-1	ls ls	RES, RES, RES, RES, RES,	CHIP CHIP CHIP CHIP CHIP	METAL METAL METAL METAL METAL	820 910 1.0k 1.1k 1.2k	1% 1% 1% 1% 1%	1/10W 1/10W 1/10W 1/10W 1/10W	
1-210 1-210 1-210	6-655-1 6-656-1 6-657-1 6-658-1 6-659-1	ls ls ls	RES, RES, RES, RES, RES,	CHIP CHIP CHIP CHIP CHIP	METAL METAL METAL METAL METAL	1.5k 1.6k 1.8k 2k 2.2k	1% 1% 1% 1% 1%	1/10W 1/10W 1/10W 1/10W 1/10W	
l-216 l-216 l-216	6-660-11 6-661-11 6-662-11 6-663-11 6-664-11	l s l s l s	RES, RES, RES, RES, RES,	CHIP CHIP CHIP CHIP CHIP	METAL METAL METAL METAL METAL	2.4k 2.7k 3k 3.3k 3.5k	1% 1% 1% 1% 1%	1/10W 1/10W 1/10W 1/10W 1/10W	
l-216 l-216 l-216	5-665-11 5-666-11 5-667-11 5-668-11 5-669-11	l s l s	RES, RES, RES, RES, RES,	CHIP CHIP CHIP CHIP CHIP	METAL METAL METAL METAL METAL	3.9k 4.3k 4.7k 5.1k 5.6k	1% 1% 1% 1% 1%	1/10W 1/10W 1/10W 1/10W 1/10W	

D-14 DXC327P(EK)

# RESISTOR, CHIP METAL

Part No. SP	Description	
1-216-670-11 s	RES, CHIP METAL	6.2k 1% 1/10W
1-216-671-11 s	RES, CHIP METAL	6.8k 1% 1/10W
1-216-672-11 s	RES, CHIP METAL	7.5k 1% 1/10W
1-216-673-11 s	RES, CHIP METAL	8.2k 1% 1/10W
1-216-674-11 s	RES, CHIP METAL	9.1k 1% 1/10W
1-216-675-11 s	RES, CHIP METAL	10k 1% 1/10W
1-216-676-11 s	RES, CHIP METAL	11k 1% 1/10W
1-216-677-11 s	RES, CHIP METAL	12k 1% 1/10W
1-216-678-11 s	RES, CHIP METAL	13k 1% 1/10W
1-216-679-11 s	RES, CHIP METAL	15k 1% 1/10W
1-216-680-11 s	RES, CHIP METAL	16k 1% 1/10W
1-216-681-11 s	RES, CHIP METAL	18k 1% 1/10W
1-216-682-11 s	RES, CHIP METAL	20k 1% 1/10W
1-216-683-11 s	RES, CHIP METAL	22k 1% 1/10W
1-216-684-11 s	RES, CHIP METAL	24k 1% 1/10W
1-216-685-11 s	RES, CHIP METAL	27k 1% 1/10W
1-216-686-11 s	RES, CHIP METAL	30k 1% 1/10W
1-216-687-11 s	RES, CHIP METAL	33k 1% 1/10W
1-216-688-11 s	RES, CHIP METAL	36k 1% 1/10W
1-216-689-11 s	RES, CHIP METAL	39k 1% 1/10W
1-216-690-11 s	RES, CHIP METAL	43k 1% 1/10W
1-216-691-11 s	RES, CHIP METAL	49k 1% 1/10W
1-216-692-11 s	RES, CHIP METAL	51k 1% 1/10W
1-216-693-11 s	RES, CHIP METAL	56k 1% 1/10W
1-216-694-11 s	RES, CHIP METAL	62k 1% 1/10W
1-216-695-11 s	RES, CHIP METAL	68k 1% 1/10W
1-216-696-11 s	RES, CHIP METAL	75k 1% 1/10W
1-216-697-11 s	RES, CHIP METAL	82k 1% 1/10W
1-216-698-11 s	RES, CHIP METAL	91k 1% 1/10W
1-216-699-11 s	RES, CHIP METAL	100k 1% 1/10W

AT-63 BOARD		(AT-63 B	OARD)
Ref. No.	Part No. SP Description	Ref. No. or Q'ty	Part No. SP Description
1pc	A-7515-211-A o MOUNTED CIRCUIT BOARD "AT-63"	D11 D12	8-719-400-18 s DIODE MA152WK 8-719-400-18 s DIODE MA152WK
C1 C2 C3 C4	1-124-234-00 s ELECT 22uF 20% 16V 1-126-154-11 s ELECT 47uF 20% 6.3V 1-126-154-11 s ELECT 47uF 20% 6.3V 1-124-229-00 s ELECT 33uF 20% 10V	D13 D14 D21	8-719-105-90 s DIODE RD5.6M-B1 8-719-400-18 s DIODE MA152WK 8-719-800-76 s DIODE 188226
C5 C6 C8 C9 C10	1-124-229-00 s ELECT 33uF 20% 10V  1-124-229-00 s ELECT 33uF 20% 10V  1-126-157-11 s ELECT 10uF 20% 16V  1-163-251-11 s CERAMIC 100PF 5% 50V  1-131-347-00 s TANTALUM 1uF 10% 35V	D23 D24 D25 D26 D27	8-719-400-18 s DIODE MA152WK 8-719-800-76 s DIODE 1SS226 8-719-104-34 s DIODE 1S2836 8-719-104-34 s DIODE 1S2836 8-719-104-34 s DIODE 1S2836
C11	1-131-347-00 s TANTALUM 1uF 10% 35V	D28	8-719-104-34 s DIODE 1S2836
C13 C14 C16 C18 C20	1-124-234-00 s ELECT 22uF 20% 16V 1-126-153-11 s ELECT 22uF 20% 6.3V 1-124-589-11 s ELECT 47uF 20% 16V 1-124-584-00 s ELECT 100uF 20% 10V 1-124-234-00 s ELECT 22uF 20% 16V	IC1 IC2 IC3 IC4 IC5	8-759-300-71 s IC MC14053BF 8-759-101-12 s IC UPC311G2 8-759-981-65 s IC LM2903M 8-759-906-54 s IC TL064CNS 8-759-300-71 s IC MC14053BF
C21 C22 C23 C24 C25	1-126-153-11 s ELECT 22uF 20% 6.3V 1-126-153-11 s ELECT 22uF 20% 6.3V 1-126-153-11 s ELECT 22uF 20% 6.3V 1-124-234-00 s ELECT 22uF 20% 6.3V 1-126-153-11 s ELECT 22uF 20% 16V 1-126-153-11 s ELECT 22uF 20% 6.3V	IC7 IC8 IC9 IC10 IC11	8-759-906-54 s IC TL064CNS 8-759-009-10 s IC MC14069UBF 8-759-323-26 s IC HD6305Y0E17F 8-759-977-80 s IC MB88342PF 8-759-977-80 s IC MB88342PF
C26 C27 C28 C29 C34	1-126-163-11 s ELECT 4.7MF 20% 50V 1-126-163-11 s ELECT 4.7MF 20% 50V 1-126-163-11 s ELECT 4.7MF 20% 50V 1-126-163-11 s ELECT 4.7MF 20% 50V 1-124-234-00 s ELECT 22uF 20% 16V	IC12 IC13 IC14 IC15 IC16	8-759-009-05 s IC MC14051BF 8-759-008-74 s IC MC14001BF 8-759-906-54 s IC TL064CNS 8-759-906-54 s IC TL064CNS 8-759-112-72 s IC UPD6142G-101
C35 C36 C37 C39 C41	1-126-160-11 s ELECT 1uF 20% 50V 1-126-160-11 s ELECT 1uF 20% 50V 1-130-489-00 s MYLAR 0.033uF 5% 50V 1-126-160-11 s ELECT 1uF 20% 50V 1-126-153-11 s ELECT 22uF 20% 6.3V		8-759-906-54 s IC TL064CNS 8-759-300-71 s IC MC14053BF 8-759-633-29 s IC M6M80011L 8-759-009-10 s IC MC14069UBF 8-759-908-17 s IC TL082CPS
C43 C45 C46 C47	1-126-153-11 s ELECT 22uF 20% 6.3V 1-163-245-11 s CERAMIC 56PF 5% 50V 1-131-379-00 s TANTALUM 22uF 10% 10V 1-131-379-00 s TANTALUM 22uF 10% 10V 1-126-157-11 s ELECT 10uF 20% 16V		1-408-783-00 s CHIP 33uH 1-408-786-21 s INDUCTOR CHIP 56UH 1-408-783-00 s CHIP 33uH
C50 C53 C62 C63 C67	1-126-157-11 S ELECT 10uF 20% 16V  1-126-157-11 S ELECT 10uF 20% 16V  1-124-234-00 S ELECT 22uF 20% 16V  1-126-153-11 S ELECT 22uF 20% 6.3V  1-126-157-11 S ELECT 10uF 20% 16V	Q1 Q2 Q3 Q4 Q5	8-729-216-22 s TRANSISTOR 2SA1162 8-729-216-22 s TRANSISTOR 2SA1162 8-729-216-22 s TRANSISTOR 2SA1162 8-729-100-66 s TRANSISTOR 2SC1623 8-729-402-19 s TRANSISTOR XN6501
C68 C69 C70 C79	1-126-157-11 s ELECT 10uF 20% 16V  1-126-157-11 s ELECT 10uF 20% 16V  1-126-153-11 s ELECT 22uF 20% 6.3V  1-131-365-00 s TANTALUM 10uF 10% 20V  1-126-160-11 s ELECT 1uF 20% 50V	Q6 Q7 Q8 Q9 Q10	8-729-402-19 s TRANSISTOR XN6501 8-729-100-66 s TRANSISTOR 2SC1623 8-729-402-84 s TRANSISTOR XN4601 8-729-402-84 s TRANSISTOR XN4601 8-729-109-41 s TRANSISTOR 2SK94-X1
C80 C81	1-126-157-11 s ELECT 10uF 20% 16V	Q11 Q12	8-729-100-66 s TRANSISTOR 2SC1623 8-729-402-19 s TRANSISTOR XN6501
C82	1-124-589-11 s ELECT 47uF 20% 16V	Q13 Q14 Q20	8-729-403-32 s TRANSISTOR XN6534 8-729-402-84 s TRANSISTOR XN4601 8-729-402-19 s TRANSISTOR XN6501
CN1 CN2 CN3 CN4	1-566-516-11 s CONNECTOR, FPC (ZIF) 16P 1-565-210-11 s CONNECTOR, FPC (ZIF) 30P 1-506-467-11 o CONNECTOR, 2P, MALE 1-506-468-11 o CONNECTOR, 3P, MALE	Q21 Q23	8-729-402-19 s TRANSISTOR XN6501 8-729-100-66 s TRANSISTOR 2SC1623
CV1	1-141-245-00 s CAP, TRIMMER 30PF	RB1	1-231-387-00 s COMPOSITION CIRCUIT BLOG
D2 D3 D5 D9 D10	8-719-800-76 s DIODE 1SS226 8-719-400-18 s DIODE MA152WK 8-719-400-18 s DIODE MA152WK 8-719-400-18 s DIODE MA152WK 8-719-400-18 s DIODE MA152WK	RV1 RV2 RV3 RV4 RV5	1-237-603-11 s RES, ADJ, METAL 2.2K 1-237-606-11 s RES, ADJ, METAL 22K 1-237-603-11 s RES, ADJ, METAL 2.2K 1-237-518-21 s RES, ADJ, METAL 10K 1-237-518-21 s RES, ADJ, METAL 10K

# (AT-63 BOARD)

Ref. No. or Q'ty	Part No. SP Description
RV6	1-230-528-11 s RES, ADJ, METAL 220K
\$1 \$2 \$3 \$4 \$5	1-570-865-11 s SWITCH, SLIDE 1-553-977-00 s SWITCH, SLIDE 1-554-303-21 s SWITCH, TACTILE 1-570-865-11 s SWITCH, SLIDE 1-570-865-11 s SWITCH, SLIDE
\$7 \$8 \$9 \$10	1-570-854-11 s SWITCH, SLIDE 1-570-865-11 s SWITCH, SLIDE 1-554-364-00 s SWITCH, SLIDE 1-570-865-11 s SWITCH, SLIDE
<b>X</b> 1	1-567-192-11 s RESONATOR, CERAMIC 4.00MHz

# BC-22 BOARD

Ref. No. or Q'ty	Part No. SP Description
1pc 3pcs	A-7515-221-A o MOUNTED CIRCUIT BOARD "BC-22" 1-569-193-11 s CONTACT
C1 C2 C3 C4	1-124-120-11 s ELECT 220uF 20% 25V 1-126-176-11 s ELECT 220uF 20% 10V 1-124-120-11 s ELECT 220uF 20% 25V 1-131-379-00 s TANTALUM 22uF 10% 10V
CN1 CN2 CN5 CN6 CN21	1-566-257-31 o CONNECTOR, BOARD TO BOARD 11P 1-566-257-31 o CONNECTOR, BOARD TO BOARD 11P 1-562-156-11 o HOUSING, 11P 1-562-152-11 o HOUSING, 7P 1-569-196-11 o HOUSING, 3P
IC1	8-759-233-18 s IC TC74HC374AF
L1	1-408-413-00 s INDUCTOR 22uH

# CM-22 BOARD Ref. No.

or Q'ty	Part No. SP Description
C2 C4 C5	1-163-251-11 s CERAMIC 100PF 5% 50V 1-135-164-21 s TANTAL 22uF 20% 10V 1-163-251-11 s CERAMIC 100PF 5% 50V 1-135-164-21 s TANTAL 22uF 20% 10V 1-163-114-00 s CERAMIC, CHIP 75PF 5% 50V
C9 C11	1-163-114-00 s CERAMIC, CHIP 75PF 5% 50V 1-163-251-11 s CERAMIC 100PF 5% 50V
CN1	1-566-095-11 s PIN, BOARD TO BOARD 5P
IC1	8-759-906-59 s IC CX22017
Q1 Q2 Q3	8-729-100-66 s TRANSISTOR 2SC1623 8-729-100-66 s TRANSISTOR 2SC1623 8-729-100-66 s TRANSISTOR 2SC1623
RV1 RV2	1-228-394-00 s RES, ADJ, METAL 4.7K 1-228-394-00 s RES, ADJ, METAL 4.7K

CN-432 BC	DARD	DR-107 B	BOARD
Ref. No. or Q'ty	Part No. SP Description	Ref. No. or Q'ty	Part No. SP Description
1pc C4 C5 C6 C15	A-7515-210-A o MOUNTED CIRCUIT BOARD "CN-432"  1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V  1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V  1-135-125-21 s TANTALUM, CHIP 33uF 20% 10V  1-135-125-21 s TANTALUM, CHIP 33uF 20% 10V	C1 C2 C3 C9 C11	1-135-138-11 s TANTAL 10uF 20% 25V 1-135-076-21 s TANTALUM, CHIP 1uF 10% 35V 1-135-076-21 s TANTALUM, CHIP 1uF 10% 35V 1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V 1-163-235-11 s CERAMIC 22PF 5% 50V
CN1 CN2 CN3 CN4 CN5	1-563-691-21 o CONNECTOR, BOARD TO BOARD 18P 1-563-687-21 o CONNECTOR, BOARD TO BOARD 14P 1-565-160-11 o PIN, CONNECTOR (ANGLE) 13P 1-565-150-11 o PIN, CONNECTOR (ANGLE) 3P 1-565-160-11 o PIN, CONNECTOR (ANGLE) 13P	C14 C15 C16 C17 C20	1-135-213-21 s TANTAL 3.3uF 20% 25V 1-135-164-21 s TANTAL 22uF 20% 10V 1-135-216-11 s TANTAL 10uF 20% 10V 1-163-102-00 s 1-135-164-21 s TANTAL 22uF 20% 10V
CN6 CN7 CN8	1-565-151-11 o CONNECTOR, 4P, MALE 1-565-160-11 o PIN, CONNECTOR (ANGLE) 13P 1-565-150-11 o PIN, CONNECTOR (ANGLE) 3P	C21 C22 C23	1-135-213-21 s TANTAL 3.3uF 20% 25V 1-135-076-21 s TANTALUM, CHIP 1uF 10% 35V 1-135-165-11 s TANTAL 33uF 10% 16V
D1 D2 D3 D5 D6	8-719-400-18 s DIODE MA152WK 8-719-400-18 s DIODE MA152WK 8-719-400-18 s DIODE MA152WK 8-719-400-18 s DIODE MA152WK 8-719-400-18 s DIODE MA152WK	CN1 CN2 CN3 CN4	1-566-257-31 o CONNECTOR, BOARD TO BOARD 11P 1-566-280-21 o CONNECTOR, BOARD TO BOARD 18P 1-566-276-21 o CONNECTOR, BOARD TO BOARD 14P 1-566-258-11 o CONNECTOR, BOARD TO BOARD 12P
D7 IC1	8-719-400-18 s DIODE MA152WK 8-759-243-06 s IC TC74AC04F	D1 D2 D4 D5	8-719-800-76 s DIODE 1SS226 8-719-400-18 s DIODE MA152WK 8-719-400-18 s DIODE MA152WK 8-719-400-18 s DIODE MA152WK
1C2 Q1 Q2 Q3 Q4	8-759-243-06 s IC TC74AC04F 8-729-216-22 s TRANSISTOR 2SA1162 8-729-100-66 s TRANSISTOR 2SC1623 8-729-140-47 s TRANSISTOR 2SC3735-L-B35 8-729-112-65 s TRANSISTOR 2SA1462	IC1 IC2 IC3 IC4 IC5	8-759-925-80 s IC SN74HC14NS 8-759-925-76 s IC SN74HC08NS 8-759-100-95 s IC UPC324G2 8-752-327-46 s IC CXD1250M 8-752-327-46 s IC CXD1250M
		IC6	8-752-327-46 s IC CXD1250M
		L1 L2 L3 L4	1-408-781-00 s CHIP 22uH 1-408-765-21 s INDUCTOR CHIP 1UH 1-408-781-00 s CHIP 22uH 1-408-781-00 s CHIP 22uH
		Q1 Q2 Q3 Q4 Q5	8-729-144-56 s TRANSISTOR 2SC3617 8-729-100-66 s TRANSISTOR 2SC1623 8-729-100-66 s TRANSISTOR 2SC1623 8-729-100-66 s TRANSISTOR 2SC1623 8-729-140-47 s TRANSISTOR 2SC3735-L-B35
		Q6 Q7 Q8 Q9 Q10	8-729-112-65 s TRANSISTOR 2SA1462 8-729-112-65 s TRANSISTOR 2SA1462 8-729-140-47 s TRANSISTOR 2SC3735-L-B35 8-729-100-66 s TRANSISTOR 2SC1623 8-729-216-22 s TRANSISTOR 2SA1162
		Q11	8-729-216-22 s TRANSISTOR 2SA1162
		RV1 RV2 RV3 RV4	1-230-873-11 s RES, ADJ, METAL 47K 1-230-873-11 s RES, ADJ, METAL 47K 1-230-873-11 s RES, ADJ, METAL 47K 1-230-867-11 s RES, ADJ, METAL 1K

**S**1

1-572-328-31 s SWITCH, CHIP

ES-2(P)	BOARD	(ES-2(P)	BOARD)
Ref. No. or Q'ty	Part No. SP Description	Ref. No. or Q'ty	Part No. SP Description
1pc C1 C2 C3 C4 C5	A-7515-215-A o MOUNTED CIRCUIT BOARD "ES-2(P)" 1-124-589-11 s ELECT 47uF 20% 16V	IC6 IC7 IC8 IC9 IC10	1-808-513-12 s IC IB-38 8-759-907-81 s IC SN74LS221NS 8-741-134-00 s IC BX-1340 1-808-514-11 s IC IB-37 8-752-332-67 s IC CXD1217M
C4 C5	1-126-154-11 s ELECT 47uF 20% 6.3V 1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V 1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V 1-163-086-00 s CERAMIC, CHIP 3PF 50V	IC11 IC12	8-759-209-90 s IC TC4S71F 8-759-209-15 s IC TC4SU69F
C6 C8 C9 C10 C13	1-126-157-11 s ELECT 10uF 20% 16V 1-126-392-11 s ELECT, CHIP 100uF 20% 6.3V 1-124-584-00 s ELECT 100uF 20% 10V 1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V 1-135-161-21 s TANTALUM, CHIP 22uF 10% 10V	L1 L2 L3 L4	1-408-781-00 s CHIP 22uH 1-408-777-00 s CHIP 10uH 1-408-781-00 s CHIP 22uH 1-408-781-00 s CHIP 22uH 1-408-781-00 s CHIP 22uH
C14 C15 C16 C17 C18	1-163-251-11 s CERAMIC 100FF 5% 50V 1-135-166-21 s TANTALUM, CHIP 47uF 10% 10V 1-135-085-21 s TANTALUM, CHIP 4.7uF 10% 25V 1-126-157-11 s ELECT 10uF 20% 16V	L7 L8 L9 L10 L11	1-408-781-00 s CHIP 22uH 1-408-781-00 s CHIP 22uH 1-408-785-21 s CHIP 47uH 1-408-781-00 s CHIP 22uH 1-408-785-21 s CHIP 47uH
C19 C20 C21 C22 C23	1-135-161-21 \$ TANTALUM, CHIP 104F 104 10V 1-135-159-21 \$ TANTALUM, CHIP 104F 10% 20V 1-135-159-21 \$ TANTALUM, CHIP 104F 10% 20V 1-126-392-11 \$ ELECT, CHIP 1004F 20% 6.3V	L12 L13 L14 L15 L16	1-408-785-21 s CHIP 47uH 1-408-783-00 s CHIP 33uH 1-408-785-21 s CHIP 47uH 1-408-785-21 s CHIP 47uH 1-408-785-21 s CHIP 47uH
C24 C26 C28 C29 C30	1-135-166-21 s TANTALUM, CHIP 47uF 10% 10V 1-135-161-21 s TANTALUM, CHIP 22uF 10% 10V 1-135-164-21 s TANTAL 22uF 20% 10V 1-163-235-11 s CERAMIC 22PF 5% 50V 1-126-176-11 s ELECT 220uF 20% 10V	L17 L18 L19 L20 L101	1-408-785-21 s CHIP 47uH 1-408-783-00 s CHIP 33uH 1-408-785-21 s CHIP 47uH 1-408-785-21 s CHIP 47uH 1-408-777-00 s CHIP 10uH
C34 C36	1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V 1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V	L201	1-408-785-21 s CHIP 47uH
C37 C38 C39	1-126-392-11 s ELECT, CHIP 100uF 20% 6.3V 1-163-099-00 s CERAMIC, CHIP 18PF 5% 50V 1-135-164-21 s TANTAL 22uF 20% 10V	LV1	1-408-844-00 s INDUCTOR, VAR, 22uH
C41 C42 C44 C46 C56	1-135-085-21 s TANTALUM, CHIP 4.7uF 10% 25V 1-131-381-00 s TANTALUM 47uF 10% 10V 1-126-176-11 s ELECT 220uF 20% 10V 1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V 1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V	Q1 Q2 Q3 Q4 Q5	8-729-402-84 s TRANSISTOR XN4601 8-729-402-19 s TRANSISTOR XN6501 8-729-122-63 s TRANSISTOR 2SA1226 8-729-402-19 s TRANSISTOR XN6501 8-729-402-78 s TRANSISTOR XN6401
C60 C61 C63 C64 C70	1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V 1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V 1-163-245-11 s CERAMIC 56PF 5% 50V 1-163-241-11 s CERAMIC, CHIP 39PF 5% 50V 1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V	Q6 Q7 Q8 Q9 Q11	8-729-100-66 s TRANSISTOR 2SC1623 8-729-175-73 s TRANSISTOR 2SC2757 8-729-216-22 s TRANSISTOR 2SA1162 8-729-402-19 s TRANSISTOR XN6501 8-729-100-66 s TRANSISTOR 2SC1623
C81 C203	1-135-085-21 s TANTALUM, CHIP 4.7uF 10% 25V 1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V 1-565-780-11 o CONNECTOR, TX(P.L)(PC BOARD)50P	Q12 Q13 Q14 Q15 Q20	8-729-402-19 s TRANSISTOR XN6501 8-729-402-19 s TRANSISTOR XN6501 8-729-216-22 s TRANSISTOR 2SA1162 8-729-100-66 s TRANSISTOR 2SC1623 8-729-109-41 s TRANSISTOR 2SK94-X1
CP1	1-577-183-11 s OSCILLATOR, CRYSTAL	RV1	1-230-523-11 s RES, ADJ, METAL 10K
D1 D2	8-719-104-34 s DIODE 1S2836 8-719-104-34 s DIODE 1S2836	RV2 RV3 RV4 RV6	1-230-519-11 s RES, ADJ, METAL 470 1-230-521-11 s RES, ADJ, METAL 2.2K 1-230-519-11 s RES, ADJ, METAL 470 1-230-522-11 s RES, ADJ, METAL 4.7K
DL1	1-415-370-11 s DELAY LINE (340NS)	RV7	1-230-521-11 s RES, ADJ, METAL 2.2K
FL1	1-235-181-00 s FILTER, BANDPASS 4.43MHz 8-759-710-24 s IC NJM319M		
IC1 IC2 IC3 IC4 IC5	8-759-300-71 s IC MC14053BF 8-759-204-57 s IC TC40H076AF 8-759-009-10 s IC MC14069UBF 1-807-836-11 s HYBRID-IC (SYNC SEP)		

X C-327P(EK)

IE-29(P)	BOARD	(IE-29(P)	BOARD)
Ref. No.	Part No. SP Description		Part No. SP Description
1pc	A-7515-230-A o MOUNTED CIRCUIT BOARD "IE-29(P)"	IC3 IC4	8-759-300-71 s IC MC14053BF 8-759-300-71 s IC MC14053BF
C1 C5 C7	A-7515-230-A 0 MOUNTED CIRCUIT BOARD "IE-29(P)"  1-124-584-00 s ELECT 100uF 20% 10V  1-163-227-11 s CERAMIC 10PF 5% 50V  1-131-377-00 s TANTALUM 10uF 10% 10V	IC5 IC6 IC7	8-759-702-02 s IC NJM062M 8-752-332-69 s IC CXL5504M 8-759-926-28 s IC SN74HC174NS
C12 C18	1-131-365-00 s TANTALUM 100F 10% 20V 1-163-100-00 s CERAMIC, CHIP 20PF 5% 50V 1-163-241-11 s CERAMIC, CHIP 39PF 5% 50V	IC8	8-759-925-72 s IC SN74HC02NS 8-759-925-72 s IC SN74HC02NS
C19 C21	1-163-241-11 s CERAMIC, CHIP 39PF 5% 50V 1-124-584-00 s ELECT 100uF 20% 10V 1-124-589-11 s ELECT 47uF 20% 16V	IC10	8-759-702-02 s IC NJM062M
C23 C24 C26	1-124-589-11 s ELECT 47uF 20% 16V 1-124-589-11 s ELECT 47uF 20% 16V 1-126-096-11 s ELECT 10uF 20% 35V	L1 L2 L3	1-408-425-00 s INDUCTOR 220uH 1-408-413-00 s INDUCTOR 22uH 1-408-413-00 s INDUCTOR 22uH 1-408-413-00 s INDUCTOR 22uH
C28 C29	1-131-347-00 s TANTALUM 1uF 10% 35V 1-131-365-00 s TANTALUM 10uF 10% 20V	L5	1-408-413-00 s INDUCTOR 22uH
C33 C34 C36	1-124-584-00 s ELECT 100uF 20% 10V 1-124-589-11 s ELECT 47uF 20% 16V 1-124-589-11 s ELECT 47uF 20% 16V 1-126-096-11 s ELECT 10uF 20% 35V 1-131-347-00 s TANTALUM 1uF 10% 35V 1-131-365-00 s TANTALUM 10uF 10% 20V 1-163-227-11 s CERAMIC 10PF 5% 50V 1-163-103-00 s CERAMIC, CHIP 27PF 5% 50V 1-126-163-11 s ELECT 4.7MF 20% 50V 1-124-234-00 s ELECT 22uF 20% 16V 1-131-347-00 s TANTALUM 1uF 10% 35V 1-131-347-00 s TANTALUM 1uF 10% 35V	L7 L8 L9	1-410-471-11 s INDUCTOR 12uH 1-408-414-00 s INDUCTOR 27uH 1-408-416-00 s INDUCTOR 39uH 1-408-414-00 s INDUCTOR 27uH
C37 C38	1-124-234-00 s ELECT 22uF 20% 16V 1-131-347-00 s TANTALUM 1uF 10% 35V	L12	1-408-418-00 s INDUCTOR 56uH
C39 C42 C44	1-124-234-00 \$ ELECT 22tr 20% 10 \$ 5 V   1-131-347-00 \$ TANTALUM 1uF 10% 35V   1-131-347-00 \$ TANTALUM 1uF 10% 35V   1-126-096-11 \$ ELECT 10uF 20% 35V   1-124-589-11 \$ ELECT 47uF 20% 16V	L13 L14 L15 L16	1-408-429-00 s INDUCTOR 470uH 1-408-413-00 s INDUCTOR 22uH 1-408-413-00 s INDUCTOR 22uH 1-408-780-21 s INDUCTOR CHIP 18uH
C45 C47	1-126-096-11 s ELECT 10uF 20% 35V 1-126-096-11 s ELECT 10uF 20% 35V	01 02	8-729-100-66 s TRANSISTOR 2SC1623 8-729-175-73 s TRANSISTOR 2SC2757
C49 C50 C51	1-126-096-11 s ELECT 10uF 20% 35V 1-126-096-11 s ELECT 10uF 20% 35V 1-163-092-00 s 1-163-241-11 s CERAMIC, CHIP 39PF 5% 50V 1-163-115-00 s CERAMIC, CHIP 82PF 5% 50V	Q3 Q4 Q5	8-729-175-73 s TRANSISTOR 2802757 8-729-122-63 s TRANSISTOR 28A1226 8-729-122-63 s TRANSISTOR 28A1226
C52 C53 C56	1-126-096-11 S ELECT 10uF 20% 35V 1-126-096-11 S ELECT 10uF 20% 35V 1-163-235-11 S CERAMIC 22PF 5% 50V	Q6 Q7	8-729-175-73 s TRANSISTOR 2SC2757 8-729-175-73 s TRANSISTOR 2SC2757
C58 C60	1-163-235-11 s CERAMIC 22PF 5% 50V 1-126-096-11 s ELECT 10uF 20% 35V	Q8 Q9 Q10	8-729-109-41 s TRANSISTOR 2SK94-X1 8-729-175-73 s TRANSISTOR 2SC2757 8-729-175-73 s TRANSISTOR 2SC2757
C70 C71 C72	1-126-096-11 s ELECT 10uF 20% 35V 1-126-096-11 s ELECT 10uF 20% 35V 1-131-377-00 s TANTALUM 10uF 10% 10V 1-126-096-11 s ELECT 10uF 20% 35V 1-131-347-00 s TANTALUM 1uF 10% 35V	011 012	8-729-175-73 s TRANSISTOR 2SC2757 8-729-175-73 s TRANSISTOR 2SC2757
C74 C75	1-126-096-11 s ELECT 10uF 20% 35V 1-131-347-00 s TANTALUM 1uF 10% 35V	013 014 015	8-729-175-73 s TRANSISTOR 2SC2757 8-729-175-73 s TRANSISTOR 2SC2757 8-729-175-73 s TRANSISTOR 2SC2757
C77 C78	1-131-344-00 s TANTALUM 0.33uF 10% 35V 1-131-365-00 s TANTALUM 10uF 10% 20V	Q16 Q17	8-729-100-66 s TRANSISTOR 2SC1623 8-729-100-66 s TRANSISTOR 2SC1623
C80 C82 C85	1-131-377-00 s TANTALUM 10uF 10% 10V 1-126-163-11 s ELECT 4.7MF 20% 50V 1-126-096-11 s ELECT 10uF 20% 35V	Q18 Q19 Q21	8-729-216-22 s TRANSISTOR 2SA1162 8-729-216-22 s TRANSISTOR 2SA1162 8-729-100-66 s TRANSISTOR 2SC1623
C86 C88	1-126-096-11 s ELECT 10uF 20% 35V 1-163-235-11 s CERAMIC 22PF 5% 50V	Q22 Q23	8-729-100-66 s TRANSISTOR 2SC1623
C91 C92 C93	1-126-096-11 s ELECT 10uF 20% 35V 1-131-365-00 s TANTALUM 10uF 10% 20V 1-131-365-00 s TANTALUM 10uF 10% 20V	024 025	8-729-216-22 s TRANSISTOR 2SA1162 8-729-100-66 s TRANSISTOR 2SC1623 8-729-100-66 s TRANSISTOR 2SC1623
C94 C95	1-163-086-00 s CERAMIC, CHIP 3PF 50V 1-163-096-00 s CERAMIC, CHIP 13PF 5% 50V	Q26 Q27	8-729-216-22 s TRANSISTOR 2SA1162 8-729-216-22 s TRANSISTOR 2SA1162
CN1 CN2	1-566-268-21 o CONNECTOR, BOARD TO BOARD 6P 1-566-275-21 o CONNECTOR, BOARD TO BOARD 13P	Q28 Q29 Q30 Q31	8-729-100-66 s TRANSISTOR 2SC1623 8-729-100-66 s TRANSISTOR 2SC1623 8-729-100-66 s TRANSISTOR 2SC1623 8-729-100-66 s TRANSISTOR 2SC1623
D1 D4	8-719-800-76 s DIODE 1SS226 8-719-101-97 s DIODE 1SS97-1	Q32 Q33	8-729-100-66 s TRANSISTOR 2SC1623 8-729-100-66 s TRANSISTOR 2SC1623
D5 DL1	8-719-101-97 s DIODE 1SS97-1 1-415-305-81 s DELAY LINE (1H)	Q34 Q35	8-729-100-66 s TRANSISTOR 2SC1623 8-729-100-66 s TRANSISTOR 2SC1623
IC1 IC2	8-759-981-51 s IC RC1496M 8-759-031-58 s IC SC7SU04F	Q36 Q37	8-729-100-66 s TRANSISTOR 2SC1623 8-729-100-66 s TRANSISTOR 2SC1623
102	O 100 A0T OO 2 TO DOIDOOFT	401	5 .20 LOU OF B HAMIOIDION EDVIOLO

(IE-29()	P) BOARD)	MB-325(P	P) BOARD
Ref. No		Ref. No. or Q'ty	Part No. SP Description
Q38	8-729-109-41 s TRANSISTOR 2SK94-X1	1pc	A-7515-213-A o MOUNTED CIRCUIT BO
Q38 Q39 Q40 Q41 Q42	8-729-100-66 s TRANSISTOR 28C1523 8-729-216-22 s TRANSISTOR 28A1162 8-729-175-73 s TRANSISTOR 28C2757 8-729-175-73 s TRANSISTOR 28C2757	C1 C3 C7 C8	1-124-584-00 s ELECT 100uF 20% 10 1-124-148-00 s ELECT 100uF 20% 20 1-124-148-00 s ELECT 100uF 20% 20 1-124-148-00 s ELECT 100uF 20% 20 1-124-148-00 s ELECT 100uF 20% 20% 20% 20% 20% 20% 20% 20% 20% 20%
Q43 Q44	8-729-100-66 s TRANSISTOR 2SC1623 8-729-216-22 s TRANSISTOR 2SA1162	<b>C</b> 9	1-163-227-11 S CERAMIC TUPF 5% 50
Q45 Q46 Q48	8-729-216-22 s TRANSISTOR 2SA1162 8-729-100-66 s TRANSISTOR 2SC1623 8-729-100-66 s TRANSISTOR 2SC1623	C18 C19 C21	1-135-159-21 s TANTALUM, CHIP 10: 1-135-216-11 s TANTAL 10uF 20% 10: 1-135-216-11 s TANTAL 10uF 20% 10:
Q49 Q50 Q51 Q52 Q53	8-729-100-66 s TRANSISTOR 2SC1623 8-729-216-22 s TRANSISTOR 2SA1162 8-729-100-66 s TRANSISTOR 2SC1623 8-729-100-66 s TRANSISTOR 2SC1623 8-729-216-22 s TRANSISTOR 2SA1162	CN1 CN2 CN3 CN4 CN5	1-565-781-11 o CONNECTOR,TX(S.S) 1-565-781-11 o CONNECTOR,TX(S.S) 1-566-579-11 o CONNECTOR, MULTI 1-566-516-11 s CONNECTOR, FPC (Z 1-506-490-21 s CONNECTOR, 11P, M
Q54 Q55 Q56 Q57	8-729-216-22 s TRANSISTOR 2SA1162 8-729-216-22 s TRANSISTOR 2SA1162 8-729-100-66 s TRANSISTOR 2SC1623 8-729-175-73 s TRANSISTOR 2SC2757	CN6 CN7 CN8 CN9	1-506-471-11 o CONNECTOR, 6P, MA 1-566-199-11 o PIN, CONNECTOR (P 1-506-467-11 o CONNECTOR, 2P, MA 1-506-487-11 o CONNECTOR, 8P, MA 1-569-202-31 o HOUSING, CONNECTO
R43 RV1 RV2 RV3 RV4 RV5	1-216-654-11 s METAL, CHIP 1.3K 0.5% 1/10W  1-226-703-11 s RES, ADJ, METAL 10K  1-226-771-11 s RES, ADJ, METAL 1K  1-238-221-11 s RES, ADJ, METAL 2.2K  1-228-519-00 s RES, ADJ, METAL 2.2K  1-226-770-11 s RES, ADJ, METAL 470	CN10	1-569-191-11 o TERMINAL, SOLDERL 1-569-193-11 s CONTACT 1-560-356-00 o CONNECTOR POST HE 1-561-514-00 o HOUSING, ILG 2P F 1-560-372-00 o CONTACT, AWG22-28
RV6	1-237-603-11 s RES, ADJ, METAL 2.2K	CN11	1-506-468-11 o CONNECTOR, 3P, MA
\$1	1-553-977-00 s SWITCH, SLIDE	CN13 CN14 CN15 CN16	1-506-488-11 s CONNECTOR, 9P, MA 1-506-481-11 o CONNECTOR, 2P, MA 1-506-481-11 o CONNECTOR, 2P, MA 1-506-481-11 o CONNECTOR, 2P, MA
		CN17	1-506-481-11 o CONNECTOR, 2P, MA 1-562-147-11 s HOUSING, 2P 1-569-193-11 s CONTACT
		CN19 CN21	1-506-472-11 o CONNECTOR, 7P, MA 1-506-482-11 o CONNECTOR, 3P, MA

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BOARD "MB-325(P)"
                                                                                                                 10V
25V
25V
25V
50V
                                                                                                                0uF 10% 20V
10V
10V
                                                                                                                )(PC BOARD)50P
)(PC BOARD)50P
50P
ZIF) 16P
MALE
                                                                                                                ALE
PC BOARD) 6P
ALE
ALE
                                                                                                                 OR 9P
                                                                                                                 LESS
                                                                                                                EADER, ILG (2P) MAL
FEMALE
                                                                                                                ALE
ALE
ALE
ALE
ALE
                                                                                                                 ALE
                         1-506-472-11 o CONNECTOR, 7P, MALE
1-506-482-11 o CONNECTOR, 3P, MALE
1-565-210-11 s CONNECTOR, FPC (ZIF) 3 OP
 CN21
CN22
                         8-719-815-85 s DIODE 181585
8-719-815-85 s DIODE 181585
8-719-105-90 s DIODE RD5.6M-B1
 D2
D3
                         8-759-209-90 s IC TC4S71F
8-759-209-69 s IC TC4S11F
8-759-150-17 s IC CXD8154M
                         1-408-096-00 s 470uH
1-408-096-00 s 470uH
1-408-767-21 s INDUCTOR CHIP 1.5uH
 L1
L2
L4
 PU1
                          1-466-426-11 s CONVERTER UNIT, DC-DC
                         8-729-100-66 s TRANSISTOR 2SC1623
8-729-100-66 s TRANSISTOR 2SC1623
8-729-100-66 s TRANSISTOR 2SC1623
8-729-100-66 s TRANSISTOR 2SC1623
8-729-216-22 s TRANSISTOR 2SA1162
 Q1
Q2
Q3
Q4
Q5
Q6
Q7
Q8
Q9
Q10
                         8-729-109-41 s TRANSISTOR 2SK94-X1
8-729-100-66 s TRANSISTOR 2SC1623
8-729-140-75 s TRANSISTOR 2SD999-CLC
8-729-101-07 s TRANSISTOR 2SB798
8-729-216-22 s TRANSISTOR 2SA1162
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## (MB-325(P) BOARD)

Ref. No. or Q'ty	Part No. SP	Description
011 012 013 014	8-729-216-22 s 8-729-100-66 s	TRANSISTOR 2SC1623 TRANSISTOR 2SA1162 TRANSISTOR 2SC1623 TRANSISTOR 2SA1162
R21	1-249-399-11 s	CARBON 33 5% 1/4W
R22	1-249-399-11 s	CARBON 33 5% 1/4W
R27 ▲	1-216-369-00 s	METAL 1 5% 2W
\$1	1-553-977-00 s	SWITCH, SLIDE
\$2	1-553-977-00 s	SWITCH, SLIDE

## MX-18 BOARD

WY-10 DO	
Ref. No. or Q'ty	Part No. SP Description
C1	1-163-224-11 s CERAMIC 7PF 0.25PF 50V
C3	1-163-099-00 s CERAMIC, CHIP 18PF 5% 50V
C4	1-135-159-21 s TANTALUM, CHIP 10UF 10% 20V
C11	1-135-164-21 s TANTAL 22uF 20% 10V
CN1	1-566-095-11 s PIN, BOARD TO BOARD 5P
CN2	1-566-095-11 s PIN, BOARD TO BOARD 5P
L1	1-408-795-21 s CHIP 330uH
L2	1-408-795-21 s CHIP 330uH
Q1	8-729-403-29 s TRANSISTOR XN6435
Q2	8-729-402-16 s TRANSISTOR XN4608
Q3	8-729-402-19 s TRANSISTOR XN6501
Q4	8-729-100-66 s TRANSISTOR 2SC1623
Q5	8-729-402-78 s TRANSISTOR XN6401
<b>Q</b> 6	8-729-402-19 s TRANSISTOR XN6501
<b>Q</b> 7	8-729-100-66 s TRANSISTOR 2SC1623
<b>Q</b> 8	8-729-216-22 s TRANSISTOR 2SA1162
<b>Q</b> 9	8-729-402-78 s TRANSISTOR XN6401
R1 R2 R3 R12 R13	1-218-254-11 s METAL CHIP 2.55K 0.50% 1/10W 1-218-257-11 s METAL CHIP 4.99K 0.50% 1/10W 1-218-259-11 s METAL CHIP 13.7K 0.50% 1/10W 1-218-254-11 s METAL CHIP 2.55K 0.50% 1/10W 1-218-259-11 s METAL CHIP 13.7K 0.50% 1/10W
R26 R27	1-218-254-11 s METAL CHIP 2.55K 0.50% 1/10W 1-218-257-11 s METAL CHIP 4.99K 0.50% 1/10W
RV1	1-238-220-11 s RES, ADJ, METAL 1K
RV2	1-238-222-11 s RES, ADJ, METAL 4.7K
RV3	1-238-221-11 s RES, ADJ, METAL 2.2K
RV4	1-238-219-11 s RES, VAR, METAL 470

PA-106 BOA	RD	PA-107B I	
Ref. No. or Q'ty P	Part No. SP Description	Ref. No. or Q'ty	Part No. SP Description
2pcs 1 2pcs 1	A-7515-218-A o MOUNTED CIRCUIT BOARD "PA-106" L-565-164-11 o CONTACT, FEMALE AWG26-28 L-566-987-11 o CONTACT, AWG28-32 L-569-193-11 s CONTACT	l DC	A-7515-220-A o MOUNTED CIRCUIT BOARD "PA-107B" 1-565-164-11 o CONTACT, FEMALE AWG26-28 1-566-987-11 o CONTACT, AWG28-32 1-569-193-11 s CONTACT
C1 1 C2 1 C3 1 C4 1 C6 1	1-135-154-21 s TANTAL 3.3uF 20% 20V 1-135-152-21 s TANTAL 1.5uF 10% 25V 1-135-166-21 s TANTALUM, CHIP 47uF 10% 10V 1-135-177-21 s TANTALUM CHIP 1uF 10% 25V 1-135-164-21 s TANTAL 22uF 20% 10V	C1 C2 C3 C4 C6	1-135-154-21 s TANTAL 3.3uF 20% 20V 1-135-152-21 s TANTAL 1.5uF 10% 25V 1-135-166-21 s TANTALUM, CHIP 47uF 10% 10V 1-135-177-21 s TANTALUM CHIP 1uF 10% 25V 1-135-164-21 s TANTAL 22uF 20% 10V
C8 C9 C19 C22 C27	1-135-164-21 s TANTAL 22uF 20% 10V 1-163-037-11 s CERAMIC, CHIP 0.022uF 10% 25V 1-135-211-11 s TANTAL 6.8uF 20% 6.3VW 1-163-037-11 s CERAMIC, CHIP 0.022uF 10% 25V 1-135-091-00 s TANTALUN, CHIP 1uF 10% 16V	C8 C9 C19 C22 C27	1-135-164-21 s TANTAL 22uF 20% 10V 1-163-037-11 s CERAMIC, CHIP 0.022uF 10% 25V 1-135-211-11 s TANTAL 6.8uF 20% 6.3VW 1-163-037-11 s CERAMIC, CHIP 0.022uF 10% 25V 1-135-091-00 s TANTALUN, CHIP 1uF 10% 16V
C30 C31	1-135-215-21 s TANTAL 6.8uF 20% 16V 1-124-584-00 s ELECT 100uF 20% 10V	C30 C31	1-135-089-21 s TANTALUM, CHIP 6.8uF 10% 20V 1-124-584-00 s ELECT 100uF 20% 10V
CN2 CN7 CN8	1-565-794-11 o HOUSING, 13P 1-566-989-11 o HOUSING, 3P 1-565-132-11 o HOUSING, 13P 1-565-122-11 o HOUSING, 3P 1-562-147-11 s HOUSING, 2P	CN1 CN2 CN7 CN8 CN16	1-565-794-11 o HOUSING, 13P 1-566-989-11 o HOUSING, 3P 1-565-132-11 o HOUSING, 13P 1-565-122-11 o HOUSING, 3P 1-562-147-11 s HOUSING, 2P
Q2 Q3 Q4	8-729-175-73 s TRANSISTOR 2SC2757 8-729-216-22 s TRANSISTOR 2SA1162 8-765-930-08 s TRANSISTOR 3SK163-2 8-729-100-66 s TRANSISTOR 2SC1623 8-729-216-22 s TRANSISTOR 2SA1162	Q1 Q2 Q3 Q4 Q5	8-729-175-73 s TRANSISTOR 2SC2757 8-729-216-22 s TRANSISTOR 2SA1162 8-765-930-08 s TRANSISTOR 3SK163-2 8-729-100-66 s TRANSISTOR 2SC1623 8-729-216-22 s TRANSISTOR 2SA1162
Q10 Q11 Q12	8-765-930-08 s TRANSISTOR 3SK163-2 8-729-100-66 s TRANSISTOR 2SC1623 8-729-216-22 s TRANSISTOR 2SA1162 8-765-930-08 s TRANSISTOR 3SK163-2 8-729-100-66 s TRANSISTOR 2SC1623	Q9 Q10 Q11 Q15 Q16	8-765-930-08 s TRANSISTOR 3SK163-2 8-729-100-66 s TRANSISTOR 2SC1623 8-729-216-22 s TRANSISTOR 2SA1162 8-765-930-08 s TRANSISTOR 3SK163-2 8-729-100-66 s TRANSISTOR 2SC1623
Q18 Q19 Q20	8-729-100-66 s TRANSISTOR 2SC1623 8-729-100-66 s TRANSISTOR 2SC1623 8-729-100-66 s TRANSISTOR 2SC1623 8-729-100-66 s TRANSISTOR 2SC1623 8-729-216-22 s TRANSISTOR 2SA1162	Q17 Q18 Q19 Q20 Q21	8-729-100-66 s TRANSISTOR 2SC1623 8-729-100-66 s TRANSISTOR 2SC1623 8-729-100-66 s TRANSISTOR 2SC1623 8-729-100-66 s TRANSISTOR 2SC1623 8-729-216-22 s TRANSISTOR 2SA1162
Q22 Q24	8-729-100-66 s TRANSISTOR 2SC1623 8-729-100-66 s TRANSISTOR 2SC1623	Q22 Q24	8-729-100-66 s TRANSISTOR 2SC1623 8-729-100-66 s TRANSISTOR 2SC1623
		R33	1-216-628-11 s METAL, CHIP 110 0.5% 1/10W

D-23

DXC-327P(EK)

PR-147 BOARD PA-107G BOARD Ref. No. or Q'ty Part No. Ref. No. or Q'ty Part No. SP Description SP Description A-7515-219-A o MOUNTED CIRCUIT BOARD "PA-107G" 1-565-164-11 o CONTACT, FEMALE AWG26-28 1-566-987-11 o CONTACT, AWG28-32 1-569-193-11 s CONTACT 1pc 1-135-091-00 s TANTALUN, CHIP 1uF 10% 16V 1-135-091-00 s TANTALUN, CHIP 1uF 10% 16V 1-135-091-00 s TANTALUN, CHIP 1uF 10% 16V 1-163-224-11 s CERAMIC 7PF 0.25PF 50V 1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V 2pcs C3 C4 C9 2pcs 1pc 1-135-154-21 s TANTAL 3.3uF 20% 20V 1-135-152-21 s TANTAL 1.5uF 10% 25V 1-135-166-21 s TANTALUM, CHIP 47uF 10% 10V 1-135-164-21 s TANTALUM CHIP 1uF 10% 25V C1 C2 C3 C4 C14 1-163-235-11 s CERAMIC 22PF 5% 50V 1-163-088-00 s CERAMIC, CHIP 5PF 50V 1-135-216-11 s TANTAL 10uF 20% 10V 1-135-216-11 s TANTAL 10uF 20% 10V 1-163-235-11 s CERAMIC 22PF 5% 50V C15 C16 1-135-164-21 s TANTAL 22uF 20% 10V C6 1-135-164-21 s TANTAL 22uF 20% 10V 1-163-037-11 s CERAMIC, CHIP 0.022uF 10% 25V 1-135-211-11 s TANTAL 6.8uF 20% 6.3VW 1-163-037-11 s CERAMIC, CHIP 0.022uF 10% 25V 1-135-091-00 s TANTALUN, CHIP 1uF 10% 16V C8 C9 C19 C22 C27 C18 1-566-095-11 s PIN, BOARD TO BOARD 5P 1-566-095-11 s PIN, BOARD TO BOARD 5P 8-719-104-34 s DIODE 1S2836 8-719-104-34 s DIODE 1S2836 8-719-104-34 s DIODE 1S2836 D1 1-135-089-21 s TANTALUM, CHIP 6.8uF 10% 20V 1-124-584-00 s ELECT 100uF 20% 10V D2C31 D31-565-794-11 o HOUSING, 13P 1-566-990-11 o HOUSING, 4P 1-565-123-11 o HOUSING, 4P 1-565-132-11 o HOUSING, 13P 1-562-147-11 s HOUSING, 2P IC1 8-759-906-53 s IC TL062CPS CN1 CN2 8-729-175-73 s TRANSISTOR 2SC2757 8-729-100-66 s TRANSISTOR 2SC1623 8-729-175-73 s TRANSISTOR 2SC2757 8-729-175-73 s TRANSISTOR 2SC2757 8-729-175-73 s TRANSISTOR 2SC2757 CN6 CN7 CN15 8-729-175-73 s TRANSISTOR 2SC2757 8-729-216-22 s TRANSISTOR 2SA1162 8-765-930-08 s TRANSISTOR 3SK163-2 8-729-100-66 s TRANSISTOR 2SC1623 8-729-216-22 s TRANSISTOR 2SA1162 Q1 Q2 Q3 Q4 Q5 8-729-109-41 s TRANSISTOR 2SK94-X1 8-729-122-63 s TRANSISTOR 2SA1226 8-729-100-66 s TRANSISTOR 2SC1623 8-729-402-78 s TRANSISTOR XN6401 Q6 Q7 Q8 Q9 Q10 8-765-930-08 s TRANSISTOR 3SK163-2 8-729-100-66 s TRANSISTOR 2SC1623 8-729-216-22 s TRANSISTOR 2SA1162 8-765-930-08 s TRANSISTOR 3SK163-2 8-729-100-66 s TRANSISTOR 2SC1623 Q6 Q7 Q8 Q9 Q10 8-729-403-29 s TRANSISTOR XN6435 Q11 8-729-403-32 s TRANSISTOR XN6534 1-238-219-11 s RES, VAR, METAL 470 1-238-222-11 s RES, ADJ, METAL 4.7K 8-729-216-22 s TRANSISTOR 2SA1162 8-765-930-08 s TRANSISTOR 3SK163-2 8-729-100-66 s TRANSISTOR 2SC1623 8-729-216-22 s TRANSISTOR 2SA1162 8-765-930-08 s TRANSISTOR 3SK163-2 Q11 Q12 Q13 Q14 8-729-100-66 s TRANSISTOR 2SC1623 Q17 Q18 Q19 Q20 8-729-216-22 s TRANSISTOR 2SA1162 8-729-100-66 s TRANSISTOR 2SC1623 8-729-100-66 s TRANSISTOR 2SC1623 022 Q24 1-216-632-11 s METAL, CHIP 160 0.5% 1/10W R33

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(PR-148(P) BOARD)
PR-148(P) BOARD
                                                                                                                                                                             Ref. No. or Q'ty Part No. SP Description
Ref. No. or Q'ty Part No. SP Description
                                                                                                                                                                                                       8-729-100-66 s TRANSISTOR 2SC1623
                                                                                                                                                                              Q19
Q20
Q21
Q22
                        A-7515-224-A o MOUNTED CIRCUIT BOARD "PR-148(P)"
1pc
                         1-126-157-11 s ELECT 10uF 20% 16V
1-163-227-11 s CERAMIC 10PF 5% 50V
1-124-589-11 s ELECT 47uF 20% 16V
1-124-472-11 s ELECT 470uF 20% 10V
1-124-471-00 s ELECT 1000uF 20% 6.3V
 C9
                                                                                                                                                                               Q23
 C14
C24
C25
                                                                                                                                                                                                       8-729-100-66 s TRANSISTOR 2SC1623
8-729-100-66 s TRANSISTOR 2SC1623
8-729-901-46 s TRANSISTOR DTA114YK
8-729-216-22 s TRANSISTOR 2SA1162
8-729-100-66 s TRANSISTOR 2SC1623
                                                                                                                                                                               Q24
Q25
Q26
Q31
Q32
                         1-124-471-00 s ELECT 1000uF 20% 6.3V

1-126-157-11 s ELECT 10uF 20% 16V

1-124-589-11 s ELECT 47uF 20% 16V

1-126-157-11 s ELECT 10uF 20% 16V

1-126-157-11 s ELECT 10uF 20% 16V
 C26
C37
 C39
                                                                                                                                                                                                        8-729-100-66 s TRANSISTOR 2SC1623
8-729-109-41 s TRANSISTOR 2SK94-X1
                         1-126-157-11 s ELECT 10uF 20% 16V
1-124-472-11 s ELECT 470uF 20% 10V
1-163-251-11 s CERAMIC 100PF 5% 50V
                                                                                                                                                                                                       1-226-703-11 s RES, ADJ, METAL 10K
1-226-771-11 s RES, ADJ, METAL 1K
                                                                                                                                                                               RV2
                                                                                                                                                                               RV3
                          1-563-679-21 o CONNECTOR, BOARD TO BOARD 6P
1-563-686-21 o CONNECTOR, BOARD TO BOARD 13P
1-565-780-11 o CONNECTOR, TX(P.L)(PC BOARD)50P
                                                                                                                                                                               RV4
                                                                                                                                                                                RV5
                                                                                                                                                                                                        1-238-222-11 s RES, ADJ, METAL 4.7K
1-238-222-11 s RES, ADJ, METAL 4.7K
1-238-222-11 s RES, ADJ, METAL 4.7K
1-226-702-00 s RES, ADJ, METAL 2.2K
1-226-702-00 s RES, ADJ, METAL 2.2K
                                                                                                                                                                                RV7
                           8-719-400-18 s DIODE MA152WK
                          8-719-400-18 s DIODE MA152WK
8-719-104-34 s DIODE 1S2836
8-719-104-34 s DIODE 1S2836
8-719-914-12 s DIODE HZ4BLL
                                                                                                                                                                                RV8
  D2
                                                                                                                                                                                RV9
  D3
                                                                                                                                                                                RV10
  D4
   D6
                                                                                                                                                                                                         1-226-702-00 s RES, ADJ, METAL 2.2K
1-238-225-11 s RES, ADJ, METAL 47K
                          8-719-914-12 s DIODE HZ4BLL
8-719-914-12 s DIODE HZ4BLL
8-719-104-34 s DIODE 152836
                                                                                                                                                                                RV12
  D7
                                                                                                                                                                                RV13
                                                                                                                                                                                RV14
   D9
                                                                                                                                                                                RV15
                           8-719-104-34 s DIODE 1S2836
   D10
                                                                                                                                                                                                         1-238-225-11 s RES, ADJ, METAL 47K
                           1-415-307-00 s 165nS
1-415-307-00 s 165nS
1-415-307-00 s 165nS
                                                                                                                                                                                RV16
                                                                                                                                                                                RV17
                                                                                                                                                                                RV18
   DL3
                                                                                                                                                                                RV19
                           8-759-204-40 s IC TC40H027F
8-759-201-50 s IC TC40H193F
8-759-906-54 s IC TL064CNS
8-759-201-53 s IC TC40H000F
8-759-209-97 s IC TC4S81F
                                                                                                                                                                                RV20
   IC2
IC3
IC4
                                                                                                                                                                                RV21
                                                                                                                                                                                                         1-238-225-11 s RES, ADJ, METAL 47K
1-238-225-11 s RES, ADJ, METAL 47K
                                                                                                                                                                                RV22
    IC5
                            8-759-209-97 s IC TC4S81F
8-759-209-97 s IC TC4S81F
8-759-300-71 s IC MC14053BF
8-759-209-97 s IC TC4S81F
8-759-209-69 s IC TC4S11F
    IC6
    IC7
    I (8
     IC9
                                                                                                                                                                                SW-445 BOARD
     IC10
                                                                                                                                                                                Ref. No. or Q'ty Part No. SP Description
                            8-759-209-97 s IC TC4S81F
8-759-209-54 s IC TC4S01F
8-759-209-15 s IC TC4SU69F
    Î C12
I C13
                                                                                                                                                                                                         A-7520-515-A o MOUNTED CIRCUIT BOARD "SW-445" 1-569-193-11 s CONTACT
                                                                                                                                                                                1pc
                            1-409-427-11 s FILTER, TRAP 14.3MHz
                                                                                                                                                                                1pc
    LP1
                            8-729-216-22 s TRANSISTOR 2SA1162
8-729-109-41 s TRANSISTOR 2SK94-X1
8-729-100-66 s TRANSISTOR 2SC1623
8-729-100-65 s TRANSISTOR 2SC1623
                                                                                                                                                                                                         1\text{--}569\text{--}195\text{--}11 o HOUSING, CONNECTOR 2P 1\text{--}569\text{--}195\text{--}11 o HOUSING, CONNECTOR 2P
                                                                                                                                                                                 CN3
    Q1
Q2
Q3
Q4
Q5
                                                                                                                                                                                CN8
                                                                                                                                                                                                         1-553-739-21 s SWITCH, TACTILE
1-553-739-21 s SWITCH, TACTILE
1-553-739-21 s SWITCH, TACTILE
                             8-729-100-66 s TRANSISTOR 2SC1623
                            8-729-100-66 s TRANSISTOR 2SC1623
8-729-901-46 s TRANSISTOR DTA114YK
8-729-900-52 s TRANSISTOR DTC114YK
8-729-900-52 s TRANSISTOR DTC114YK
8-729-216-22 s TRANSISTOR 2SA1162
     Q6
Q7
Q8
Q9
Q10
                                                                                                                                                                                SW001
                                                                                                                                                                                                         1-554-486-00 s SWITCH, TOGGLE
                             8-729-216-22 s TRANSISTOR 2SA1162
8-729-216-22 s TRANSISTOR 2SA1162
8-729-100-66 s TRANSISTOR 2SC1623
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SW-446 BOARD	VA-105B BOARD
Ref. No. or Q'ty Part No. SP Description	Ref. No. or Q'ty Part No. SP Description
1pc       A-7520-516-A o MOUNTED CIRCUIT BOARD "SW-446"         1pc       1-562-736-11 o HOUSING, 3P         1pc       1-564-831-11 o CONTACT, FEMALE         1pc       1-569-193-11 s CONTACT         CN4       1-569-196-11 o HOUSING, 3P	C1
S1 1-570-985-11 s SWITCH, TOGGLE S2 1-570-985-11 s SWITCH, TOGGLE	C13
TG-72(P) BOARD	C20 1-135-072-21 s TANTALUM, CHIP 0.22uF 10% 35V C21 1-135-145-11 s TANTALUM, CHIP 0.47uF 10% 35V C23 1-135-216-11 s TANTAL 10uF 20% 10V
Ref. No. or Q'ty Part No. SP Description	CN1 1-566-095-11 s PIN, BOARD TO BOARD 5P CN2 1-566-095-11 s PIN, BOARD TO BOARD 5P
1pc A-7515-217-A o MOUNTED CIRCUIT BOARD "TG-72(P)"	D4 8-719-104-34 s DIODE 1S2836 D5 8-719-104-34 s DIODE 1S2836
C4 1-163-251-11 s CERAMIC 100PF 5% 50V C7 1-135-125-21 s TANTALUM, CHIP 33uF 20% 10V C9 1-135-161-21 s TANTALUM, CHIP 22uF 10% 10V C19 1-135-125-21 s TANTALUM, CHIP 33uF 20% 10V	IC1 8-759-981-51 s IC RC1496M IC2 8-759-906-53 s IC TL062CPS
CN1 1-563-684-31 o CONNECTOR, BOARD TO BOARD 11P CN2 1-563-685-31 o CONNECTOR, BOARD TO BOARD 12P CN3 1-563-684-31 o CONNECTOR, BOARD TO BOARD 11P CN4 1-563-684-31 o CONNECTOR, BOARD TO BOARD 11P	Q1       8-729-109-41       \$ TRANSISTOR 2SK94-X1         Q2       8-729-109-41       \$ TRANSISTOR 2SK94-X1         Q3       8-729-100-66       \$ TRANSISTOR 2SC1623         Q4       8-729-100-66       \$ TRANSISTOR 2SC1623         Q5       8-729-122-63       \$ TRANSISTOR 2SA1226
CP1 1-577-182-11 s OSCILLATOR, CRYSTAL 28.375MHz	Q6 8-729-100-66 s TRANSISTOR 2SC1623 Q7 8-729-216-22 s TRANSISTOR 2SA1162
IC1 8-752-333-20 s IC CXD1255Q IC2 8-759-925-83 s IC SN74HC27NS IC3 8-759-985-18 s IC 74AC08SJ IC4 8-759-925-74 s IC SN74HC04NS	Q6 8-729-100-66 s TRANSISTOR 2SC1623 Q7 8-729-216-22 s TRANSISTOR 2SA1162 Q8 8-729-402-19 s TRANSISTOR XN6501 Q9 8-729-109-41 s TRANSISTOR 2SK94-X1 Q11 8-729-109-41 s TRANSISTOR 2SK94-X1
IC4 8-759-925-74 s IC SN74HC04NS IC5 8-759-925-76 s IC SN74HC08NS IC6 8-759-031-43 s IC SC14S81F	Q14 8-729-122-63 s TRANSISTOR 2SA1226 Q15 8-729-175-73 s TRANSISTOR 2SC2757 Q17 8-729-216-22 s TRANSISTOR 2SA1162
L1 1-408-781-00 s CHIP 22uH	Q18 8-729-109-41 s TRANSISTOR 2SK94-X1
L2 1-408-781-00 s CHIP 22uH	R18 1-216-654-11 s METAL, CHIP 1.3K 0.5% 1/LOW

VA-105G BOARD	VA-105R BOARD
Ref. No. or Q'ty Part No. SP Description	Ref. No. SP Description
C1 1-163-235-11 s CERAMIC 22PF 5% 50V	C1 1-163-235-11 s CERAMIC 22PF 5% 50V
C9 1-135-216-11 s TANTAL 10uF 20% 10V	C9 1-135-216-11 s TANTAL 10uF 20% 10V
C10 1-135-216-11 s TANTAL 10uF 20% 10V	C10 1-135-216-11 s TANTAL 10uF 20% 10V
C13 1-163-088-00 s CERAMIC, CHIP 5PF 50V	C13 1-163-088-00 s CERAMIC, CHIP 5PF 50V
C14 1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V	C14 1-135-159-21 s TANTALUM, CHIP 10uF 10% 20V
C15 1-135-072-21 s TANTALUM, CHIP 0.22uF 10% 3 C18 1-135-149-21 s TANTALUM, CHIP 2.2uF 10% 10 C19 1-163-251-11 s CERAMIC 100PF 5% 50V C20 1-135-072-21 s TANTALUM, CHIP 0.22uF 10% 3 C21 1-135-145-11 s TANTALUM, CHIP 0.47uF 10% 3	C19 1-103-251-11 5 CERAMIC 100FF 34 50V
C23 1-135-216-11 s TANTAL 10uF 20% 10V	C23 1-135-216-11 s TANTAL 10uF 20% 10V
C25 1-163-086-00 s CERAMIC, CHIP 3PF 50V	C25 1-163-086-00 s CERAMIC, CHIP 3PF 50V
CN1 1-566-095-11 s PIN, BOARD TO BOARD 5P 1-566-095-11 s PIN, BOARD TO BOARD 5P	CN1 1-566-095-11 s PIN, BOARD TO BOARD 5P CN2 1-566-095-11 s PIN, BOARD TO BOARD 5P
D4 8-719-104-34 s DIODE 1S2836	D4 8-719-104-34 s DIODE 1S2836
D5 8-719-104-34 s DIODE 1S2836	D5 8-719-104-34 s DIODE 1S2836
IC1 8-759-981-51 s IC RC1496M	IC1 8-759-981-51 s IC RC1496M
IC2 8-759-906-53 s IC TL062CPS	IC2 8-759-906-53 s IC TL062CPS
Q1 8-729-109-41 s TRANSISTOR 2SK94-X1	Q1 8-729-109-41 s TRANSISTOR 2SK94-X1
Q2 8-729-109-41 s TRANSISTOR 2SK94-X1	Q2 8-729-109-41 s TRANSISTOR 2SK94-X1
Q3 8-729-100-66 s TRANSISTOR 2SC1623	Q3 8-729-100-66 s TRANSISTOR 2SC1623
Q4 8-729-100-66 s TRANSISTOR 2SC1623	Q4 8-729-100-66 s TRANSISTOR 2SC1623
Q5 8-729-122-63 s TRANSISTOR 2SA1226	Q5 8-729-122-63 s TRANSISTOR 2SA1226
Q6 8-729-100-66 s TRANSISTOR 2SC1623	Q6 8-729-100-66 s TRANSISTOR 2SC1623
Q7 8-729-216-22 s TRANSISTOR 2SA1162	Q7 8-729-216-22 s TRANSISTOR 2SA1162
Q8 8-729-402-19 s TRANSISTOR XN6501	Q8 8-729-402-19 s TRANSISTOR XN6501
Q9 8-729-109-41 s TRANSISTOR 2SK94-X1	Q9 8-729-109-41 s TRANSISTOR 2SK94-X1
Q11 8-729-109-41 s TRANSISTOR 2SK94-X1	Q11 8-729-109-41 s TRANSISTOR 2SK94-X1
Q14 8-729-122-63 s TRANSISTOR 2SA1226	Q14 8-729-122-63 s TRANSISTOR 2SA1226
Q15 8-729-175-73 s TRANSISTOR 2SC2757	Q15 8-729-175-73 s TRANSISTOR 2SC2757
Q17 8-729-216-22 s TRANSISTOR 2SA1162	Q17 8-729-216-22 s TRANSISTOR 2SA1162
Q18 8-729-109-41 s TRANSISTOR 2SK94-X1	Q18 8-729-109-41 s TRANSISTOR 2SK94-X1
R18 1-216-654-11 s METAL, CHIP 1.3K 0.5% 1/10	W R18 1-216-654-11 s METAL, CHIP 1.3K 0.5% 1/10W

DX(-327P(EK)

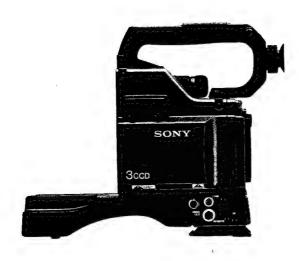
```
FRAME

Ref. No. or Q'ty Part No. SP Description

1-542-112-11 s MICROPHONE (C-2025)
1-547-463-11 o FILTER UNIT, OPTICAL
1-574-145-11 s WIRE, FLAT TYPE (30 CORE)
1-590-168-11 s WIRE, FLAT TYPE (16 CORE)
1-942-381-12 s HARNESS (LENS)
1-946-627-11 o HARNESS (RM)
8-814-189-31 s MICROPHONE, BUILT-IN (C-1007D)

CN101 1-562-782-21 s RECEPTACLE, 10P FEMALE "REMOTE"
1-569-193-11 s CONTACT
1-569-191-11 o TERMINAL, SOLDERLESS
CN102 1-561-320-00 s SOCKET, DIN 8P "VF"
CN104 1-562-222-41 s CONNECTOR, 6P, FEMALE
1-562-151-11 o HOUSING, 6P
1-569-193-11 s CONTACT
CN105 1-561-781-11 s CONNECTOR, BNC, FEMALE
S102 1-553-972-00 s TOGGLE "POWER"
```

# COLOR VIDEO CAMERA



#### **SPECIFICATIONS**

## Camera head (DXC-327/327P)

Image device Interline-transfer CCD, 3-chip

Picture elements

768 × 494 (h/v) (NTSC)

 $752 \times 582 \text{ (h/v) (PAL)}$ 

Sensing area 6.4 mm × 4.8 mm (equivalent to a ½-inch

pickup tube)

Built-in filters 1: 3200 K

2: 5600 K + 1/8 ND

3: 5600 K

Lens mount Bayonet mount

Signal system EIA standards, NTSC color system

(for DXC-327)

CCIR standards, PAL color system

(for DXC-327P)

Scanning system

525 lines, 2:1 interlace, 30 frames/sec.

(NTSC)

625 lines, 2:1 interlace, 25 frames/sec.

(PAL)

Scanning frequency

Horizontal: 15.734 kHz (NTSC)

15.625 kHz (PAL)

Vertical: 59.94 Hz (NTSC)

50.00 Hz (PAL)

Sync system Internal

External with the BS or VBS signal supplied to the GEN LOCK IN connector (When the CA-327/327P, CA-325/325P, CA-325A/325AP or CA-325B is used) or the reference signal input to the VTR/CCU/CMA connector from the GEN LOCK IN

connector of the CCU-M3/M3P (When the CA-327/327P or CA-325/325 is used)

Horizontal resolution

700 lines (center)

Minimum illumination

20 lux with F1.4, + 18 dB

Sensitivity 2000 lux with F5.0, at 3200 K Gain selection 0 dB, 9 dB or 18 dB, selectable

Video output Composite signal:

1.0 Vp-p, sync negative,

75 Ω unbalanced Y/C separate signal:

Y: 1.0 Vp-p, sync negative,

unbalanced

C: burst level 0.286 Vp-p (NTSC)

0.3 Vp-p (PAL)

without sync

Signal to noise ratio

60 dB (NTSC)

58 dB (PAL) Registration 0.05 % for Z

0.05 % for Zone I 0.05 % for Zone II

0.05 % for Zone III



Inputs/Outputs VIDEO OUT: BNC-type

LENS: 1/2-inch lens connector (7-pin) 2/3-inch lens connector (6-pin)

VF: 8-pin

REMOTE: 10-pin

Power requirements

12 V DC

Power consumption

8 W

Operating temperature

-5°C to +45°C (23°F to 113°F)

Storage temperature

-20°C to +60°C (-4°F to 140°F)

Weight

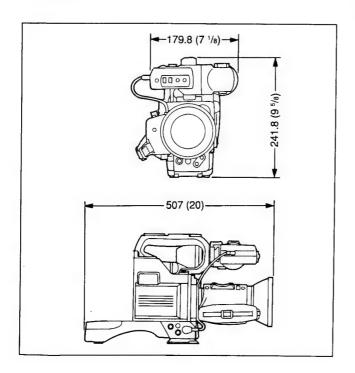
2 kg (4 lb 7 oz)

Dimensions

See the illustrations below.

Unit: mm (inches)

#### **Dimensions**



### Carrying case (LC-420)

Weight

About 7.7 kg (15 lb 7 oz)

Dimensions

About  $790 \times 440 \times 340 \text{ mm (w/h/d)}$ 

 $(31^{1}/8 \times 17^{3}/8 \times 13^{1}/2 \text{ inches})$ 

## **Accessories supplied**

CCQ-2BRS camera cable (with Q-type 14-pin connectors) (supplied with the DXC-327K/327PK/327L/327PL only) (1)

VCL-712BX zoom lens (supplied with the DXC-327K/327PK only) (1)

DXF-327/327CE electronic viewfinder (supplied with the

DXC-327K/327PK/327L/327PL only) (1)

LC-420 carrying case (supplied with the DXC-327K/327PK/327PL only) (1)

VCT-12 tripod attachment (supplied with the DXC-327K/ 327PK/327L/327PL only) (1)

Lens cap (1)

Chart for flange focal length adjustment (1)

Design and specifications are subject to change without notice.

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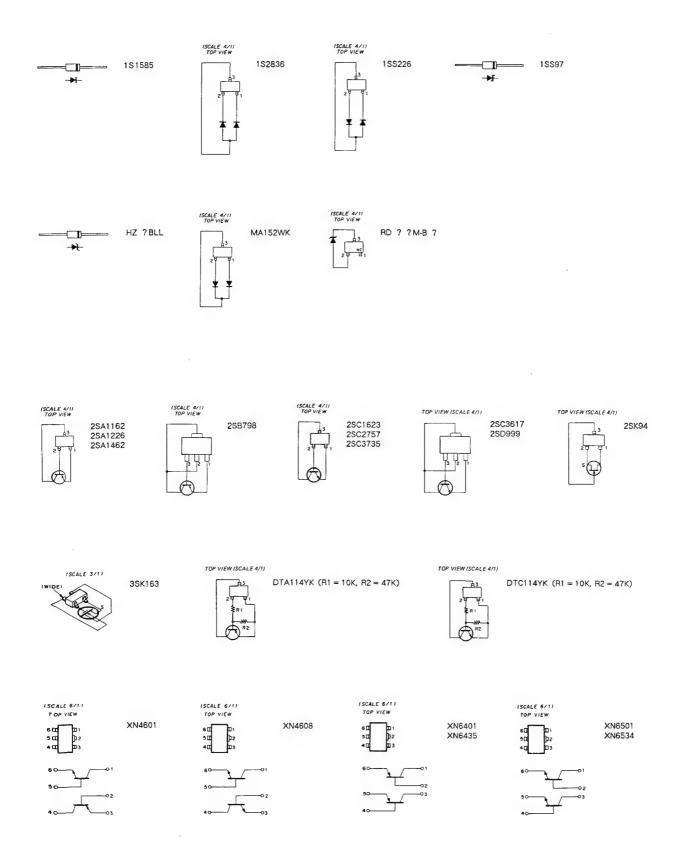
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	IE-29
	PR-147 ————————————————————————————————————
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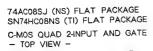
# **SECTION B SEMICONDUCTOR**

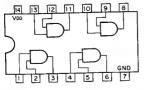
The circuit diagram of IC is obtained from the IC data book published by the manufacturer.

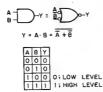
The circuit diagram	Of IC IS Obtained	. Hom the to data	. Doon passes
TYPE	PAGE	TYPE	PAGE
1S1585 · · · · · · · · · · · · · · · · · ·	··· B-2 ··· B-2 ··· B-2	SN74HC02NS····· SN74HC04NS····· SN74HC08NS····· SN74HC174NS···· SN74HC27NS····	B-9 B-3 B-10 B-10
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2SB798 · · · · · · · · · · · · · · · · · · ·		TC40H000F······ TC40H027F·····	····· B-10
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# DIODE, TRANSISTOR





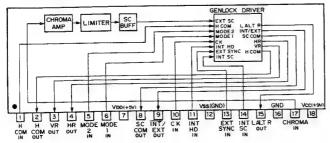




Voo
+2 to +5.5V
+2 to +6V

#### BX1340 (SONY)

SC LIMITER AND GENLOCK DRIVER

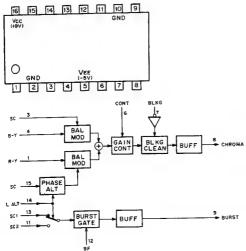


NODE 1	MODE 2	MODE
1	1	NTSC
0	0	PAL

#### CX22017 (SONY)

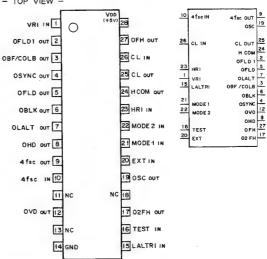
VIDEO SIGNAL PROCESSOR

~ TOP VIEW -



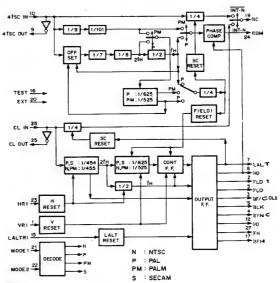
# CXD1217M (SONY) FLAT PACKAGE

C-MOS SYNC GENERATOR - TOP VIEW -



SYSTEM	4fsc	CLOCK
NTSC	910fн	910fH
PAL	1135fn+2fv	908fn
PALM	909fH	910fn
SECAM		908fn

MODE1 MODE2	SYSTEM	
2	SIGILM	
0 1 0 1	NTSC	
0 1	SECAM	
1 0	PALM	
1 1	PAL	



INPUT 4fSC IN CL IN EXT ; 4fSC INPUT ; CLOCK INPUT ; SYNC MODE SELECT (L; INTERNAL/H; EXTERNAL) ; H RESET ; LINE CHANGE RESET ; SYSTEM SELECT ; V RESET HRI LALTRI MODE 1,2 VRI

OUT PUT

41SC OUT:
CL OUT:
HCOM:
021H

0BF/COLB:
0BLK

0FH

0FLD

0FLD

0FLD1

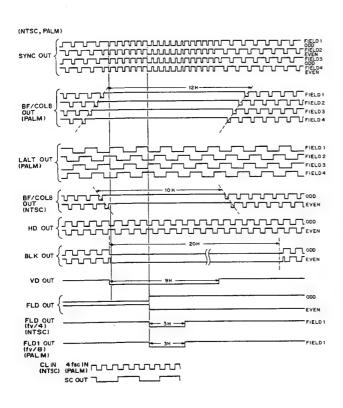
0HD

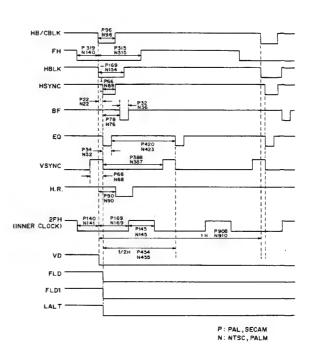
0LALT

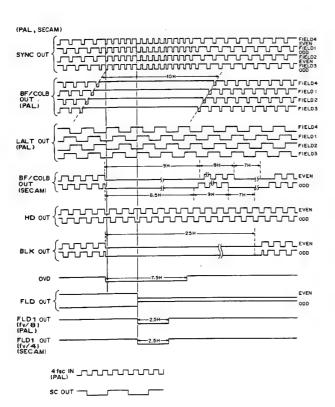
0SC

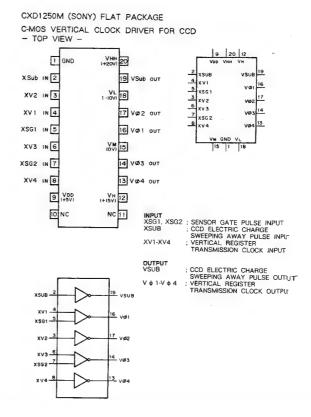
0SYNC

0VD : 4fSC OUTPUT
: CLOCK OUTPUT
: CLOCK OUTPUT
: PHASE COMPARATOR
: 2H1 OUTPUT
: BURST FLAG/COLOR BLANKING
: COMPOSITE BLANKING
: H FREQUENCE
: EVEN, ODD
: FIELD!
: H DRIVE
: LINE CHANGE
: SUBCARRIER
: COMPOSITE SYNC
: V DRIVE



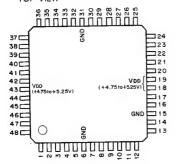






CXD1255Q (SONY) FLAT PACKAGE

C-MOS SCANNING SYSTEM TIMING SIGNAL GENERATOR FOR CCD CAMERA – TOP VIEW –



PIN NO.	1/0	SIGNAL									
1	0	SP1	13	1	FL,	25	1	D0	37	-1	TEST2
2	0	SHD	14	0	VAA	26	1	MODE3	38	0	PBLK
3	0	SHP	15	- 1	GND	27	1	MODE2	39	0	ID
4	0	XV4	16	0	XH2	28	L	MODE1	40	0	CLP3
5	0	XV2	17	0	XH1	29	E	OSCI	41	0	CLP2
6	-	GND	18	_	VDD	30	0	OSCO	42	0	CLP1
7	T	TEST1	19	_	VDD	31	-	GND	43	-	VDD
8	0	XV3	20	T	MODE4	32	1	CK	44	0	XDL2
9	0	XV1	21	0	XSUB	33	0	XCK	45	0	XDL1
10	0	XSG2	22	1	EN	34	1	VD	46	1	MODE6
11	10	XSG1	23	1	D2	35	1	HD	47	1	MODE5
12	0	XRG	24	1	D1	36	0	CL	48	0	SP2



INPUT
CK

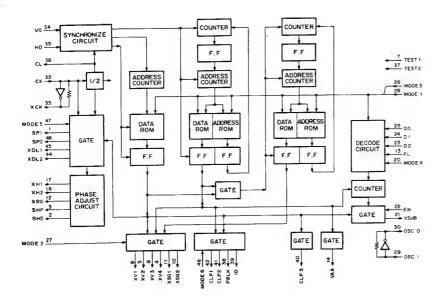
(MAIN CLOCK)

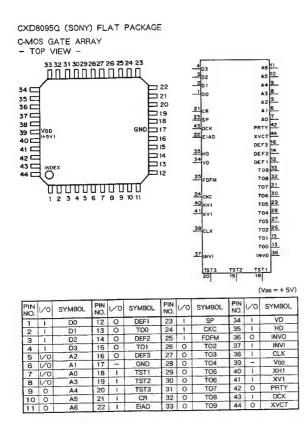
DO - D2
EN
ELECTRONIC SHUTTER SPEED CHANGE
ELECTRONIC SHUTTER ON/OFF
(0) OFF 1; ON)
FL
HORIZONIC SHUTTER ON/OFF
(0) OFF 1; ON)
MODE1
COLOR/MONOCHROME (B/W) CHANGE
(0) COLOR 1; B/W)
MODE2
MODE3
MODE4
MODE4
MODE5
MODE5
MODE5
MODE5
MODE6
MODE5
MODE6
MODE6
MODE6
MODE6
MODE7
MODE7
MODE7
MODE7
MODE7
MODE7
MODE8
MODE8
MODE8
MODE8
MODE9

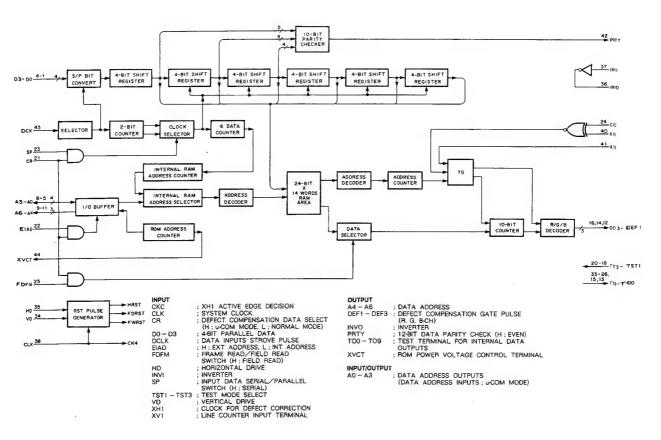
OUTPUT

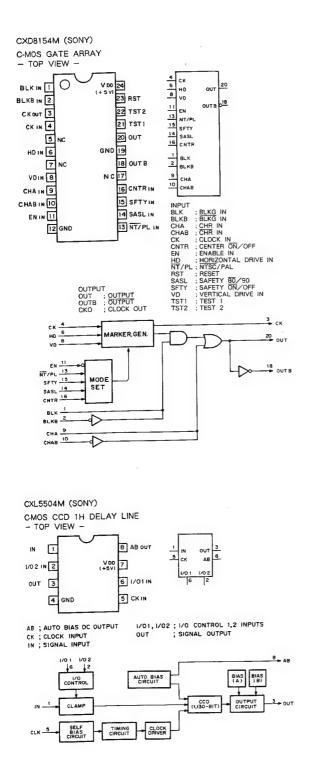
CL : CLOCK OUTPUT FOR SYNC GENERATOR

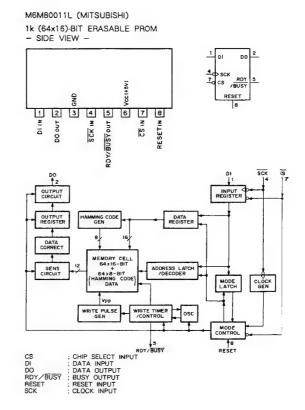
CLPI - CLP3 : CLAMP PULSE
ID : LINE DISCRIMINATE PULSE
OSCO : INVERTER OUTPUT FOR OSCILLATOR
PBLK : PREBLANKING PULSE
SHD : CCD DATA OUTPUT S/H PULSE
SHD : CCD DATA OUTPUT S/H PULSE
SHP : CCD PEC CHARGE LEVEL S/H PULSE
SP1,SP2 : COLOR SEPARATE S/H PULSE
VAA : INVERTER OUTPUT FOR DUTY CONTROL
XDL1 - XDL3 : CLOCK PULSE FOR DELAY LINE
XH1,XH2 : H REGISTER CLOCK PULSE
XRG : CCD OUTPUT RESET PULSE
XSUB : ELECTRIC CHARGE SWEEPING AWAY PULSE
XSG1,XSG2 : SENSOR ELECTRIC CHARGE READ OUT PULSE
XV1 - XV4 : V REGISTER CLOCK PULSE





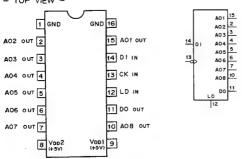




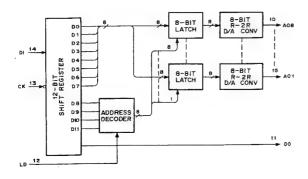


## MB88342PF (FUJITSU) FLAT PACKAGE

C-MOS 8-BIT D/A CONVERTER TOP VIEW

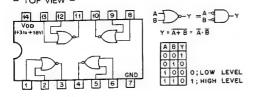


- AO8 ; 8-BIT D/A OUTPUTS ; CLOCK INPUT ; SERIAL DATA INPUT ; DATA OUTPUT ; DATA LOAD CONTROL INPUT (H; LOAD)



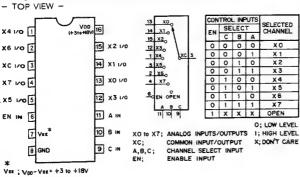
#### MC14001BF (MOTOROLA) FLAT PACKAGE

C-MOS 2-INPUT NOR GATE - TOP VIEW -



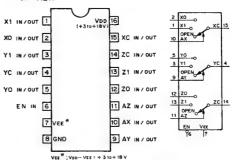
MC14051BF (MOTOROLA) FLAT PACKAGE

C-MOS 8-CHANNEL ANALOG MULTIPLEXER/DEMULTIPLEXER



#### MC14053BF (MOTOROLA) FLAT PACKAGE

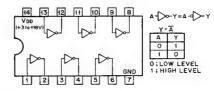
C-MOS TRIPLE 2-CHANNEL ANALOG MULTIPLEXER/DEMULTIPLEXER - TOP VIEW -



	CON	T. INPUTS	ÓN	
	EN	A (X,Y,Z,)	CHANNEL	
O: LOW LEVEL	0	0	0	
1 HIGH LEVEL	0	1	1	
X: DON'T CARE.	1	X	OPEN	

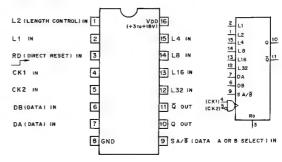
MC14069UBF (MOTOROLA) TC4069UBF (TOSHIBA) FLAT PACKAGE

C-MOS INVERTER - TOP VIEW -



#### MC14557BF (MOTOROLA) FLAT PACKAGE

C-MOS 1-TO-64-BIT VARIABLE LENGTH SHIFT REGISTER — TOP VIEW —



LENGTH SELECT TRUTH TABLE

L32	L16	L8	L4	L2	L1	REGISTER LENGTH
0	0	0	0	0	0	1 - BIT
0	0	0	0	0	1	2 - BIT
0	0	0	0	1	0	3 - BIT
0	0	0	0	1	1	4-BIT
0	0	0	1	0	0	5-BIT
			-			
1	1		- [	1	:	1
1	1	1	1	0	0	61 - BIT
t	1	1	1	0	1	62 - BIT
1	1	1	1	1	0	63 - BIT
1	1	1	1	1	1	64 - BIT

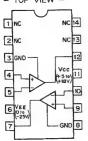
	NPL	OUTPUT		
RD	SA/B	CK1	CK2	Q
0	0	Ŀ	0	DB
0	1.	Ч	0	DA
0	0	1.	7	DB
0	1	1	L	DA
4	¥	¥	Y	0

O; LOW LEVEL 1; HIGH LEVEL X; DON'T CARE

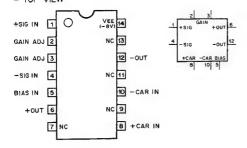
NJM062M (JRC) FLAT PACKAGE TL062CPS (TI) FLAT PACKAGE OPERATIONAL AMPLIFIER (JFET INPUT) - TOP VIEW



NJM319M (JRC) FLAT PACKAGE DUAL VOLTAGE COMPARATOR - TOP VIEW -

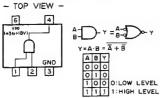


RC1496M (RAYTHEON) FLAT PACKAGE BALANCED MODULATOR/DEMODULATOR

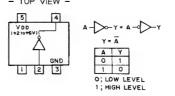


SC14S81F (MOTOROLA) FLAT PACKAGE TC4S81F (TOSHIBA) FLAT PACKAGE

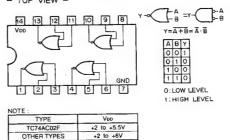
C-MOS 2-INPUT AND GATE



SC7SU04F (MOTOROLA) FLAT PACKAGE C-MOS INVERTER - TOP VIEW -



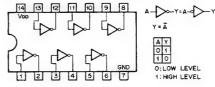
SN74HC02NS (TI) FLAT PACKAGE C-MOS QUAD 2-INPUT NOR GATE - TOP VIEW -



SN74HC04NS (TI) FLAT PACKAGE TC74AC04F (TOSHIBA) FLAT PACKAGE

C-MOS HEX INVERTER - TOP VIEW --



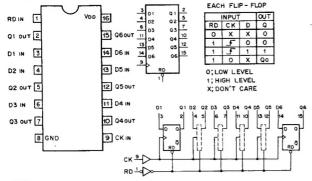


NOTE :	
TYPE	Von
74ACT04 TYPES 74HCT04 TYPES	+5∨
TC74AC04F	+2 to +5.5V
TC74ACT04F	+4.5 to +5.5V
OTHER TYPES	+2 to +6V

#### SN74HC174NS (TI) FLAT PACKAGE

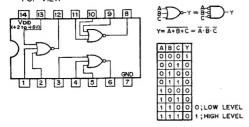
C-MOS D-TYPE FLIP-FLOP WITH RESET - TOP VIEW -





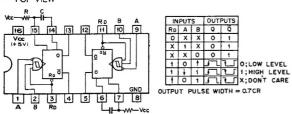
TYPE	Vpp
74AC	+3.3 to +5V
74ACT	+5V
74HC	+2 to +6V
TC74AC174F	+2 to +5.5V

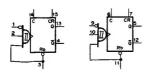
#### SN74HC27NS (TI) FLAT PACKAGE C-MOS 3-LINE POSITIVE-NOR GATE - TOP VIEW -



#### SN74LS221NS (TI) FLAT PACKAGE

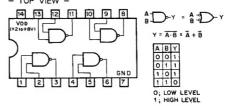
TTL MONOSTABLE MULTIVIBRATOR WITH SCHMITT TRIGGER INPUT - TOP VIEW -





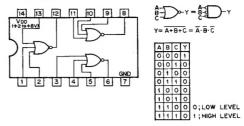
#### TC40H000F (TOSHIBA) FLAT PACKAGE

C-MOS 2-INPUT NAND GATE TOP VIEW -



#### TC40H027F (TOSHIBA) FLAT PACKAGE

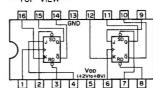
C-MOS 3-INPUT POSITIVE-NOR GATE - TOP VIEW -

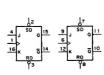


#### TC40H076AF (TOSHIBA) FLAT PACKAGE

C-MOS HIGH SPEED EDGE TRIGGER TYPE J-K FLIP-FLOP WITH DIRECT SET/RESE - TOP VIEW -

LOW LEVEL HIGH LEVEL DON'T CARE





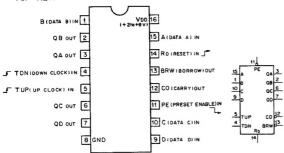
1

TS	P	OUT	INPUTS									
2	Ι	Q	К	J	CK	SD	RD					
0	Τ	1	Х	х	Х	0	1					
1	Τ	0	X	Χ.	X	1	0					
1	Τ	1	Х	х	Х	0	0					
ΙŒ	NO CHANGE		0	0	T	1 1 7						
5	Ι	1	0	1	7	1	1					
1	T	0	1	0	T_	1	1					
TOGGLE		1	1	T	1 1							
NO CHANGE			Х	X	F	1	1					

TC40H193F (TOSHIBA) FLAT PACKAGE

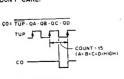
C-MOS PRESETTABLE SYNCHRONOUS 4-BIT UP/DOWN COUNTER

- TOP VIEW -



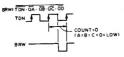
COU	HINOL	INPL	MODE		
Ro	PE	TUP	TON		
1	X	X	X	RESET TO ZERO	
0	0	X	X	PRESET	
0	1	5	1	UP COUNT	
0	1	1	5	DOWN COUNT	
0	1	1	1	NO COUNT	

O; LOW LEVEL 1; HIGH LEVEL X; DON'T CARE.

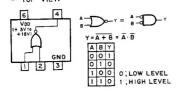


0	0	0	0	0	†
1	0	0	0	1	
2	0	0	1	0	
3	0	0	1	1.	
4	0	1	0	0	
5	0	1	0	1	COUNT
6	0	1	1	0	COUNT
7	0	1	1	1	] § °
8	1	0	0	0	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
9	1	0	0	1	DOWN
10	1	0	1	0	11:
11	1	0	1	1	
12	1	1	0	0	
13	1	1	0	1	
14	1	1	1	0	
15	1	1	1	1	111

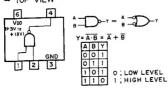
COUNT OUTPUTS QD QC QB QA



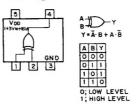
TC4S01F (TOSHIBA) FLAT PACKAGE C-MOS 2-INPUT NOR GATE -- TOP VIEW --



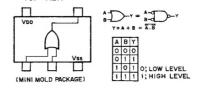
TC4S11F (TOSHIBA) FLAT PACKAGE C-MOS 2-INPUT NAND GATE - TOP VIEW -



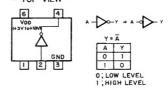
TC4S30F (TOSHIBA) FLAT PACKAGE C-MOS EXCLUSIVE OR GATE - TOP VIEW -



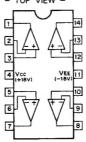
TC4S71F (TOSHIBA) FLAT PACKAGE C-MOS 2-INPUT OR GATE - TOP VIEW -



TC4SU69F (TOSHIBA) FLAT PACKAGE C-MOS INVERTER BUFFER - TOP VIEW -



TL064CNS (TI) FLAT PACKAGE OPERATIONAL AMPLIFIER (J FET-INPUT) - TOP VIEW -



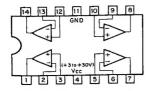
TL082CPS (TI) FLAT PACKAGE
OPERATIONAL AMPLIFIER
(J FET-INPUT)
- TOP VIEW -



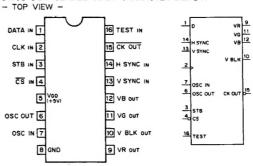
uPC311G2 (NEC) FLAT PACKAGE VOLTAGE COMPARATOR - TOP VIEW -



uPC324G2 (NEC) FLAT PACKAGE QUAD. OP AMPLIFIER - TOP VIEW -



uPD6142G-101 (NEC) FLAT PACKAGE
C-MOS 8-BIT SERIALL INPUT CHARACTER DISPLAY



D; DATA INPUT

CK OUT: EQUAL TO OUTPUT OF OSC OUT

CLK; CLOCK INPUT

CS; CHIP SELECT INPUT

H SNC: H SYNC INPUT

OSC IN, OUT: EXTERNAL TERMINAL POR OSC

STB; STROBE INPUT

TEST; TEST CLOCK INPUT

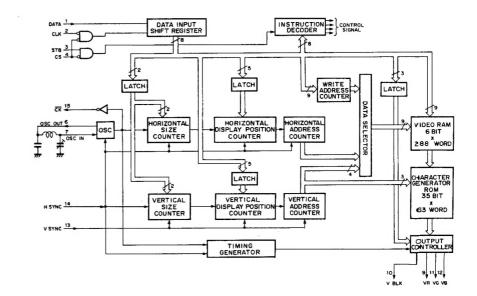
VB; BLUE CHARACTER DATA OUTPUT

VB HSLUE CHARACTER DATA OUTPUT

VC; GREEN CHARACTER DATA OUTPUT

VR; RED CHARACTER DATA OUTPUT

VS; VSYNC; VSYNC INPUT



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